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RESEARCH PAPER

Effect of surface soil removal and organic amendment on yield of sesame (*Sesamum indicum* L.)

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Abstract : An experiment was conducted to study the effect of surface soil removal and organic amendment on sesame (*Sesamum indicum* L.) during *Kharif* 2018 in the experimental field of Soil and Water Conservation department, School of Agricultural Sciences and Rural Development, Nagaland University, Medziphema campus. A split plot with three replications was designed. Surface soil removal of 0, 5 and 10 cm designated as D_0, D_1 and D_2 were carried out, respectively. The addition of different organic amendments was adopted *viz.*, O_0- control, O_1- vermicompost @ 3 tonnes ha^{-1}, O_2- poultry litter @ 3 tonnes ha^{-1} and O_3- pig manure @ 3 tonnes ha^{-1}. Seed yield was found to be significantly higher under D_0 (0.414 t ha^{-1}) whereas, D_2 recorded the lowest yield (0.380t ha^{-1}). Application of poultry manure as amendment gave significantly high seed yield (0.431 t ha^{-1}) and lowest yield was reported in O_0 (0.356 t ha^{-1}). The interaction between surface soil removal and organic amendment showed the highest yield with D_0O_2 (0.44 t ha^{-1}) and lowest with D_2O_0 (0.34 t ha^{-1}). Hence, application of organic amendments in areas where surface soil removal was done helped to improve the growth and yield of sesame.

Key Words : Sesame, Surface soil removal, Organic amendments

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