

ABSTRACT

The field experiments were carried out in an area of one feddan at “KAHER EL-HAMAM” experimental research station through successful season 2005 to investigate the effect of seedbed preparation and different planting methods on the black seed yield production.

The experimental results reveal the following

- 1- Treatment (T1); (Chisel plow tow passes + land leveler) is recommended for gives the best properties soil and give high yield under the same planting system.
- 2- Mechanical Planting by seed drill and pneumatic planter save about 50% and 73% from seeds
- 3- The highest productivity was 798.7 kg/fed at treatment (B) (Chisel plow tow passes + land leveler + seed drill).
- 4- Treatment (B); (Chisel plow tow passes + land leveler + seed drill) is recommended for producing black seed yield under Egyptian condition as it requires minimum cost (0.139 L.E/kg) and minimum power requirements (0.081 k.w/kg).

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