

Performance Evaluation of Manually Operated Pull Type Inclined Plate Planter

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ABSTRACT

Farm mechanization plays a vital role in reducing cost of crop production and increase in cropping intensity. A manually operated inclined plate planter was developed and its performance was evaluated for crops namely maize, castor and redgram. The field capacity of the planter was found to be 0.12, 0.1225 and 0.097 ha/h for castor, redgram and maize respectively. The seed spacing was found to be satisfactory against the set spacing. The seed rate was found to be satisfactory for castor and maize and was less for redgram. The cost of planter was Rs.4100 with an operating cost of Rs.36 per hour. Cost of sowing was saved up to 69.18% with the planter compared to manual sowing. Seeds, operating time and money can be saved with the planter compared to manual sowing.

Key words: Cost of Operation, Evaluation, Field Capacity, Field Efficiency, Planter .