DEVELOPMENT OF MANUAL EXPERIMENTAL PLOT SEEDER

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\(^2\)Received-02.11.2016, Revised-16.11.2016

Abstract: The basic purpose of mechanization is to raise agricultural productivity, increase profitability and thus improve quality of life of farming community. The improvement of machine for sowing of experimental plots is a continuing problem facing by plants breeders, agronomists, plant pathologists and other agricultural scientists. Most part of the country, old traditional method is used for sowing. Traditional sowing method adversely affects result in improper placement of the seed into the soil at the correct soil depth, failure to properly keep the seeds firmly in the soil, uneven placement of the seeds at the correct interval in a row. Seed sowing is the most labour intensive operation. The labour requirement in manual sowing of gram seed is as high as 30 labour-\text{ha}^{-1} and time requirement for sowing is also high. Keeping this in mind, manual experimental plot seeder was developed for gram. The field capacity of experimental plot seeder was observed to be 0.0547 ha \text{h}^{-1} (Digvijay variety of gram) and 0.0864 ha \text{h}^{-1} (Kripa variety of gram) & the field efficiency was observed to be 75.95 \% (Digvijay variety of gram) and 80 \% (Kripa variety of gram).

Keywords: Plot seeder, Field experiment, Crop, Productivity

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