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Development and testing of tractor operated slasher

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ABSTRACT : Uprooting, collection, transportation, size reduction, compost making and then again transportation in to the field needs one year period and involve huge cost of operation. Hence, this method is not suitable and practicable on farmer's field. In this point of view the investigation taken study with the objectives to development of tractor operated slasher to evaluate performance of developed tractor operated slasher. A prototype slasher evaluated the performances in various crops. The average speed of operation was observed to be 5.29 km/h with working width of 120cm. The average actual field capacity was found 0.533 ha/h. The average field efficiency of the slasher was recorded as 83.44 %. Among all the treatment, the minimum value of cost of operation of Rs. 282.00/ha was observed in sunhemp crop and maximum was recorded in PKV H 2 variety of cotton crop value of Rs. 385/ha. In respect of saving in cost, the maximum values of savings in cost 81per cent, in sunhemp crop over traditional method.

KEY WORDS : Cotton, Field capacity, Field efficiency, Slasher

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