

An Overview of Mechanical Weed Controlling Methods Considering Specialized Brush Cutter Weeder

N.A.S.I. Neththasinghe^{1*} and N.R. Jayathissa²

^{1*}*Skills College of Technology, Nugegoda, Sri Lanka*

²*University of Peradeniya, Peradeniya, Sri Lanka*

*sewminiishara5@gmail.com

Abstract

There are different weed control strategies to control weeds, for example, manual evacuating strategy, substance control, natural control, and mechanical control. Out of all the weed control strategies, mechanical techniques are the most attainable and have enormous outcomes. Mechanical weed control involves the use of various tools and equipment to manage and eliminate unwanted vegetation in agricultural and landscaping settings. One specific tool was designed and developed to be used for this purpose and is called the brush cutter weeder. While considering the mechanical weed controlling methods, the brush cutter weeder is the most applicable alternative for medium-scale farmers because it reduces the efforts that were put in by farmers in terms of money, labor, time, and physical efforts for economical weeding operation and cultivation. The weeding wheels of the brush cutter weeder were modified to add weeds to the top of the crop when using the machine. This can be used as an organic fertilizer for a crop. Finally, this overview shows that there are different kinds of techniques that can be used to control weeds in the field. Based on the research reviews, it can be suggested that the design and development of a bush cutter as a weeder was the best solution for the existing weed-control problems. Not only that, compared to other mechanical weed controllers, this will be a reasonable cost for a farmer.

Keywords: *brush cutter, manual methods, mechanical methods, weeds, weeders*

**Not presented at the conference*