



Research paper

Development of Feeding Conveyor in Grain Stationery Thresher

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ABSTRACT

This study was conducted at the Faculty of Agriculture, Nile Valley University. It aims to develop the conventional grain thresher by the addition of a conveyor feeding belt to increase productivity and reduce operational costs. The improved thresher with conveyor feeding belt was compared with the conventional feeding. Both systems were evaluated in terms of labors requirement, costing and crops losses. For feeding, measurements were taken in all plots using three replications. Independent T- test with three replications was used for analysis of results. Results indicated that there is a significant difference between the threshing methods, for the required man-hrs./fed, labor-saving SDG/fed and crops losses between the two systems. The labour requirement was 2 man-hr./fed for the developed system compared to 6 man-hr./fed for the conventional one. The cost of labour for feeding was 32 SDG /fed compared to 75 SDG /fed with conventional system constituting 43 % of the harvesting operation cost. The total crop losses for traditional feeding was about 10% at feeding rate of 10 kg/min compared with 6% when using developed thresher with conveyor feeding at 10 kg/min feeding rate. The developed thresher with conveyor feeding is durable, easy to operate and with lower maintenance costs. All components of the machine were fabricated from local materials and total cost for the designed and developed conveyor feeding belt was only 1150 DSG.

Keywords: *Crops losses, designing, feeding conveyor*

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Table of Contents Groundnut Thresher Research Paper

1. Understanding the eBook Groundnut Thresher Research Paper
 - The Rise of Digital Reading Groundnut Thresher Research Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Groundnut Thresher Research Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Groundnut Thresher Research Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Groundnut Thresher Research Paper
 - Personalized Recommendations
 - Groundnut Thresher Research Paper User Reviews and Ratings
 - Groundnut Thresher Research Paper and Bestseller Lists

5. Accessing Groundnut Thresher Research Paper Free and Paid eBooks
 - Groundnut Thresher Research Paper Public Domain eBooks
 - Groundnut Thresher Research Paper eBook Subscription Services
 - Groundnut Thresher Research Paper Budget-Friendly Options
6. Navigating Groundnut Thresher Research Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Groundnut Thresher Research Paper Compatibility with Devices
 - Groundnut Thresher Research Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Groundnut Thresher Research Paper
 - Highlighting and Note-Taking Groundnut Thresher Research Paper
 - Interactive Elements Groundnut Thresher Research Paper
8. Staying Engaged with Groundnut Thresher Research Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Groundnut Thresher Research Paper
9. Balancing eBooks and Physical Books Groundnut Thresher Research Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Groundnut Thresher Research Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Groundnut Thresher Research Paper
 - Setting Reading Goals Groundnut Thresher Research Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Groundnut Thresher Research Paper
 - Fact-Checking eBook Content of Groundnut Thresher Research Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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