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RECEIVED 10 April 2024

ACCEPTED 16 October 2024

PUBLISHED 13 November 2024

CITATION

Gebiso T, Ketema M, Shumetie A and
Feye G (2024) Impact of farm mechanization
on crop productivity and economic efficiency
in central and southern Oromia, Ethiopia.
Front. Sustain. Food Syst. 8:1414912.
doi: 10.3389/fsufs.2024.1414912

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Impact of farm mechanization on crop productivity and economic efficiency in central and southern Oromia, Ethiopia

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Introduction: Farm mechanization has multi-dimensional impacts on agricultural production systems like economic efficiency and productivity, thereby improving the quality of life in the farming community by reducing work drudgeries. However, these impacts were not studied empirically in Ethiopia. Hence, this research was initiated to estimate the level of economic efficiency, and productivity of wheat and barley, and the impact of farm mechanization on economic efficiency and productivity of wheat and barley.

Methods: The analysis was done for 232 and 257 wheat and barley producer farmers respectively who are selected from the Arsi and West Arsi zones. The stochastic frontier model was used to estimate economic efficiency while augmented inverse probability weighted (AIPW) was used to estimate the impact.

Results and discussion: Based on the result, it is apparent that farm mechanization has a significant positive impact on wheat productivity while the percentage change in average treatment effect for the barley was not statistically significant. Farm mechanization also affects wheat and barley economic efficiency positively. Hence, we recommended the wider use of farm mechanization to improve economic efficiency and productivity. Therefore, policy design should focus on ways to avail farm machinery easily like establishing farm mechanization service centers and facilitating credit services for mechanization service renders.

KEYWORDS

augmented inverse probability weight, economic efficiency, farm mechanization, impact, stochastic frontier analysis

1 Introduction

The impacts of agricultural mechanization have been estimated for different outcome vary in different regions of the world. *Aminass (2001)* and *Houmany et al. (2013)* pointed out that farm mechanization has multi-dimensional impacts in agricultural production system like economic efficiency, and life quality of the farming community by reducing work drudgeries. Its introduction can also increase the productivity of the farming system significantly, especially where agriculture is more dominated by traditional technologies. Mechanization reduces production costs, thereby increasing profit and reducing food costs (*Cossar, 2019; Bello, 2012*). Farm mechanization has great impacts on factor productivity improvement like labor productivity, land productivity, and capital productivity (*Goyal et al., 2014*). Moreover, the literature indicated that farm mechanization has an impact on the adoption of technologies like an improved seed, chemical fertilizer, agrochemicals, etc., and crop yields (*Takeshima*

Economics Efficiency And Farm Mechanisation

Frank Ellis



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Farm mechanization in India: Economic issues, perspective and opportunities Ranjith Kumar P.S, Prasanna Kumar P.S ,Prem Jose Vazhacharickal, Mechanization is a process of replacing biological sources of energy involving animal and human labour to mechanized sources of energy Farm mechanization indicates the use of machines for conducting agricultural operations replacing the traditional methods which involve human and animal labour In the period 2004 05 to 2011 12 robust growth in the secondary and tertiary sectors led to significant job creation in agriculture sector Tractors and power tillers have been driving the farm mechanization in India Tractor sales have grown at a CAGR of 9.0 % in Financial Year FY 05 15 to around 5.5 lakh tractors in FY15 around 2.3 lakh in FY2005 whereas sales of power tillers have grown at a CAGR of 10.6% in FY2005 to 2015 to 48 000 power tillers in

FY2015 17 841 in FY2005 Farm mechanisation is a fuel to agriculture production now days As several studies indicate the mechanisation not only reduced the drudgery of manual labour and it enables the efficient and judicious use of resources The increased agricultural production and productivity over the decades is coupled with the farm power availability High labour intensive crops have turned to low labour intensive crops by replacing the mechanical power which also reduced the cost of production and improved quality of produce led to increased farmers income share The Economics of Farm

Mechanization in the United States, 1950-1960, 1960

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Lorencowicz, Bruno Huyghebaert, Jacek Uziak, 2024-09-18 This book gathers the latest advances innovations and applications in the field of sustainable and smart agriculture as presented by leading researchers at the XII Farm Machinery and Processes Management in Sustainable Agriculture FMPMSA held in Lublin Poland on June 12 14 2024 The book covers highly diverse topics including management of field and livestock production machinery management of biomass and agroenergy production plant protection soil management and agrochemicals application smart farming and sustainability ergonomic labor organization and sustainable agriculture in the European Union and other countries The papers which are published after a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists **Consequences of Small-farm**

Mechanization International Rice Research Institute, 1983

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expand professional fields to exchange new ideas face to face to present research results and to discuss the key challenging issues and research directions facing the development of this field with a view to promoting the development and application of theories and technologies in universities and enterprises

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Economic Indicators of the Farm Sector, 1981 Farm output in 1979 rose 6 percent from 1978's record level Crop and livestock increased 10 million acres to the biggest acreage since 1954 Crop production per acre a record rose 7 percent spurred by favorable weather higher prices received and increased fertilizer use Tractor and farm machinery numbers declined though tractor horsepower increased Hours of farm labor dipped 2 percent to 4.3 billion hours but each farmworker produced farm products for 68 persons 5 more than in 1978

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Table of Contents Economics Efficiency And Farm Mechanisation

1. Understanding the eBook Economics Efficiency And Farm Mechanisation
 - The Rise of Digital Reading Economics Efficiency And Farm Mechanisation
 - Advantages of eBooks Over Traditional Books
2. Identifying Economics Efficiency And Farm Mechanisation
 - 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 Economics Efficiency And Farm Mechanisation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Economics Efficiency And Farm Mechanisation
 - Personalized Recommendations
 - Economics Efficiency And Farm Mechanisation User Reviews and Ratings
 - Economics Efficiency And Farm Mechanisation and Bestseller Lists
5. Accessing Economics Efficiency And Farm Mechanisation Free and Paid eBooks
 - Economics Efficiency And Farm Mechanisation Public Domain eBooks
 - Economics Efficiency And Farm Mechanisation eBook Subscription Services
 - Economics Efficiency And Farm Mechanisation Budget-Friendly Options
6. Navigating Economics Efficiency And Farm Mechanisation eBook Formats

- ePub, PDF, MOBI, and More
- Economics Efficiency And Farm Mechanisation Compatibility with Devices
- Economics Efficiency And Farm Mechanisation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Economics Efficiency And Farm Mechanisation
 - Highlighting and Note-Taking Economics Efficiency And Farm Mechanisation
 - Interactive Elements Economics Efficiency And Farm Mechanisation
- 8. Staying Engaged with Economics Efficiency And Farm Mechanisation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Economics Efficiency And Farm Mechanisation
- 9. Balancing eBooks and Physical Books Economics Efficiency And Farm Mechanisation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Economics Efficiency And Farm Mechanisation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Economics Efficiency And Farm Mechanisation
 - Setting Reading Goals Economics Efficiency And Farm Mechanisation
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Economics Efficiency And Farm Mechanisation
 - Fact-Checking eBook Content of Economics Efficiency And Farm Mechanisation
 - 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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