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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.

augment 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. Amirani (2001) and Hounty 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 (Cossur, 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 (Takeshimia

Economics Efficiency And Farm Mechanisation

AN Whitehead

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Economic Efficiency and Farm Mechanisation P. Narasimha Rao, 2003 Modernisation Of Agriculture Is A Worldwide Trend Modernisation And Technological Inputs Are Highly Interrelated Among Technological Innovations The Mechanization Is Perhaps The Most Critical One Unfortunately The History Of Agricultural Policy In Many Developing Countries Including India Is Replete With Controversies When It Come To Mechanization Mechanization Was Dubbed As Anti Labour Anti Employment Anti Poor And Hence Needs To Be Discouraged At Any Cost Over The Years The Scare Among Policy Makers About Mechanization Has Receded In Its Intensity But The Phobia Has Not Disappeared Many Economists Have Also Contributed To The Predicament Of Policy Makers In This Regard Part Of It Was Ideological And Visibly Anti Big Farmer Oriented In This Perspective Mechanization Was Identified With Large Farms And Big Farmers The Present Study About The Impact Of Mechanization Is Able To Pinpoint With A Great Deal Of Accuracy The Desirable Consequences And Welcome Features Of Mechanization It Is Able To Explore The Effects Of Mechanization On Farm Income Employment Productivity And Economic Efficiency In Crop Production The Arguments That Have Been Made In The Present Study Regarding The Social Costs And Benefits Of The Existing Pattern Of Mechanization Leads To The Conclusion That Net Social Benefits Are Positive Analysis Of Data From The Present Study Indicates That The Existing Pattern Of Mechanization Does Not Add To Unemployment In The Region Where The Thrust Is To Expand Agricultural Output Because Machines Are Used In Response To Worthwhile Techno Economic Considerations And High Cost Of Draught Power As Machines Help To Save Resources Hitherto Allotted To Maintain Draught Animals They Enable An Increase In Output By Raising Crop Intensity And Yield Per Acre Their Use May Be Socially More Beneficial In The Context Of Shortages And High Prices Of Agricultural Commodities The Increase In The Scale Of Operation The Rise In The Crop Intensity And Yield Per Acre Made Possible By Mechanization Can Lead To A Net Increase In Farm Employment Being In An Age Of Technology We Simply Cannot Ignore This Beneficial Fallout From Mechanization Although The Empirical Work Is Confined To Andhra Pradesh In Its Analytical Framework Methodology And Discussion Of Relevant Issues It Has Much Wider Application It Is A Major Contribution To The Research And Would Be Useful To Economists Agricultural Scientists And Policy Makers 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 Economic indicators of the farm sector. Production and Farm Machinery and Processes Management in Sustainable Agriculture Edmund efficiency statistics ,1981 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 **Proceedings of the 2022 International Conference on** Bigdata Blockchain and Economy Management (ICBBEM 2022) Daowen Qiu, Yusheng Jiao, William Yeoh, 2022-12-28 This is an open access book As a leading role in the global megatrend of scientific innovation China has been creating a more and more open environment for scientific innovation increasing the depth and breadth of academic cooperation and building a community of innovation that benefits all These endeavors have made new contribution to globalization and creating a community of shared future With the rapid development of modern economic society in the process of economic management informatization has become the mainstream of economic development in the future At the same time with the emergence of advanced management technologies such as blockchain technology and big data technology real market information can be quickly obtained in the process of economic management which greatly reduces the operating costs of the market economy and effectively enhances the management level of operators thus contributing to the sustained rapid and healthy development of the market economy Under the new situation the innovative application of economic management research is of great practical significance 2022 International Conference on Bigdata Blockchain and Economic Management ICBBEM 2022 will be held on March 25 27 2022 in Wuhan China ICBBEM 2022 will focus on the latest fields of Bigdata Blockchain and Economic Management to provide an international platform for experts professors scholars and engineers from universities scientific institutes enterprises and government affiliated institutions at home and abroad to share experiences to

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Human-Centered Agriculture P. K. Nag, L. P. Gite, 2020-08-31 This book explores the interplay of farm mechanization human factors and climatic and other environmental uncertainty in agriculture using an ergonomics based approach to discuss solutions to the traditionally acknowledged vulnerability of the sector It converges contemporary research documentation case studies and international standards on

agricultural ergonomics engineering anthropometry human factors basic occupational health services safety management human performance and system sustainability to provide a handy reference to students and professionals working to optimize agricultural output while balancing the rational utilization of labour in agricultural practices and human well being

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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
 - o 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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web introduction the do 160 document was first published on february 28 1975 to specify test conditions for the design of avionics electronic hardware in airborne systems since then the standard has undergone subsequent revisions up through revision g

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web testing section 4 0 of eurocae ed 14 rtca do 160 in which the temperature of the environment of the cca inside an item of equipment may be much higher or lower than the equipment level condition as expressed in section 4 0 of eurocae ed 14 rtca do 160 the applicant can qualify their

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web environmental conditions and test procedures for airborne equipment the original do 160 standard was published in 1975 to provide standard test methods which would ensure new aviation equipment would function appropriately in the multiple environmental and emi conditions found on aircraft

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web environmental simulations the rtca do 160 standard environmental conditions and test procedures for airborne equipment maintained by the radio technical commission for aeronautics rtca specifies a series of minimum standard environmental test conditions and applicable test procedures for airborne equipment

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web rtca do 160 section 5 temperature variation testing rtca do 160 section 5 determines performance characteristics of the equipment during temperature variations between high and low operating temperature extremes note the test is not intended to verify the behavior of the equipment in wet or icing conditions

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web category designation for equipment shall consist of six characters pin test waveform set letter a or b as designated in table $22\ 1\ 1$ or z or x pin test level 1 to 5 as designated in table $22\ 2$ or z or x cable bundle single and multiple stroke test waveform set letter c through k as designated in table $22\ 1\ 2$ or z or x

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web the tests in rtca do 160 provide a laboratory means of demonstrating the performance characteristics of airborne equipment in environmental conditions that may be encountered in operation of the equipment in aircraft it is not the intent of rtca do 160 to be used as a measure of service life of the airborne equipment subjected to these tests

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web apr 9 2020 while iec6008 2 provides guidance for environmental tests of electronic and electro mechanical equipment rtca do 160e section 4 provides standard temperature test conditions and applicable test procedures for airborne equipment environmental test chamber temperature test chamber

section 4 0 temperature and altitude do 160 - Aug 15 2023

web rtca do 160 section 4 0 temperature and altitude the temperature and altitude tests determine the performance characteristics of equipment at the applicable categories for the temperatures and altitudes specified in table 4 1 and at the pressures defined in table 4 2 the following categories cover the wide range of environments known

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web b eurocae ed14e rtca do 160e section 5 temperature variation combine this test with eurocae ed14e rtca do 160e section 4 testing requirements c eurocae ed14e rtca do 160e section 6 humidity d eurocae ed14e rtca do 160e section 7 operational shocks and crash safety after this test the equipment