



#### OPEN ACCESS

Folonimio Mathew Akinseye. International Crops Research Institute for the Semi-Arid Tropics DCRISATI, Kenya-

Erman Akçac Adiyaman University, Türkiye Michael, Muccarrot. Sher-e-Kashmir University of Agricultural Sciences and Technology, India Shadrack Riwadwo Amponish,

CSIR Crops Research Institute, Chana

**PODRIGHENDROPHICS** Tarmost Gebisor III derbissochalbalbomail.com

HEDDINGO LO April 2024 ADDITION 16 Oktober 2024 russummen 13 November 2024

Gebiso T, Ketema M, Shumetie A and Feyer GL (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/hum.20241414912

© 2024 Gebiso, Retema, Shumetie and Feye. This is an open-access article distributed. under the terms of the C Administrate License ICC Birl. The use. distribution or reproduction in other forums is permitted, provided the original authoriti and the copyright owners: are credited and that the original publication in this journal is oited. in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

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

Tamrat Gebiso 11, Mengistu Ketema<sup>2</sup>, Arega Shumetie<sup>2</sup> and Getachew Legese Feye<sup>3</sup>

Socioeconomics Research Directorate, Oromia Agricultural Research Institute, Asella, Ethiopia, Ethiopian Economics Association, Adds Ababa, Ethiopia, Wessarch Projects Coordinator. International Livestock Research Institute (U.RC. Addis Abalia, Ethiopia

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**

**JS Bruner** 

**Economics Efficiency And Farm Mechanisation:** 

### Economics Efficiency And Farm Mechanisation Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Economics Efficiency And Farm Mechanisation**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

 $\underline{http://www.pet\text{-}memorial\text{-}markers.com/About/scholarship/Documents/Health\%20Benefits\%20Of\%20Grapeseed.pdf}$ 

## **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
  - o 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

### **Economics Efficiency And Farm Mechanisation Introduction**

In todays digital age, the availability of Economics Efficiency And Farm Mechanisation books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Economics Efficiency And Farm Mechanisation books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Economics Efficiency And Farm Mechanisation books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing Economics Efficiency And Farm Mechanisation versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, Economics Efficiency And Farm Mechanisation books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether youre a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing Economics Efficiency And Farm Mechanisation books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for Economics Efficiency And Farm Mechanisation books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public.

Open Library hosts millions of books, including both public domain works and contemporary titles. It also allows users to borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which provides a vast collection of digitized books and historical documents. In conclusion, Economics Efficiency And Farm Mechanisation books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an everexpanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Economics Efficiency And Farm Mechanisation books and manuals for download and embark on your journey of knowledge?

#### **FAQs About Economics Efficiency And Farm Mechanisation Books**

What is a Economics Efficiency And Farm Mechanisation PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. How do I create a Economics Efficiency And Farm Mechanisation PDF? There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. How do I edit a Economics Efficiency And Farm Mechanisation PDF? Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. How do I convert a Economics Efficiency And Farm Mechanisation PDF to another file format? There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. How do I password-protect a Economics Efficiency And Farm Mechanisation PDF? Most PDF

editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

### **Find Economics Efficiency And Farm Mechanisation:**

health benefits of grapeseed

healing hands an alabama medical mosaic

health and safety for toxicity testing

health care organizational survey system

healing earth natures medicine for the troubled soul

healing of americawelfare reform in the cyber economy

haydn string quartets

heads i win

hbj advanced mathematics a preparation for calculus teachers manual and resource guide

haynes datsun b210 owners workshop manual 73 thru aug. 78

headache & other head pain ed.dalessio 4/e

head on

health care challenge acknowledg

he pa auroa

headache pathogenesis monoamines neuropeptides purines and nitric oxide

#### **Economics Efficiency And Farm Mechanisation:**

Mother Reader - by Moyra Davey MOYRA DAVEY is the editor of Mother Reader: Essential Writings on Motherhood, and a photographer whose work has appeared in Harper's, Grand Street, Documents, ... Mother Reader: Essential Writings on Motherhood The essays, journals, and stories are powerful enough to inspire laughter, tears, outrage, and love -- powerful enough even to change the lives of those who ... Mother Reader: Essential Writings on Motherhood Mother Reader is a great collection of essays, stories, journal entries, and excerpts of novels addressing the confluence of motherhood and creativity. The ... Mother Reader Mother Reader IS an absolutely essential collection of writings. If you are a mother, a writer, or a lover of fine writing, you need this book the way you ... Mother Reader. Essential Writings on Motherhood "My aim for Mother Reader has been to bring together examples of the best writing on motherhood of the last sixty years, writing that tells firsthand of ... Mother Reader: Essential Writings on Motherhood May 1, 2001 — Here, in memoirs, testimonials, diaries, essays, and fiction, mothers describe first-hand the changes brought to their lives by pregnancy, ... Mother Reader by Edited by Moyra Davey The intersection of motherhood and creative life is explored in these writings on mothering that turn the spotlight from the child to the mother herself. Mother Reader: Essential Writings on Motherhood ... Here, in memoirs, testimonials, diaries, essays, and fiction, mothers describe first-hand the changes brought to their lives by pregnancy, childbirth, and ... Mother Reader: Essential Writings on Motherhood ... Here, in memoirs, testimonials, diaries, essays, and fiction, mothers describe first-hand the changes brought to their lives by pregnancy, childbirth, and ... Moyra Davey Discusses Her Mother Reader, 15 Years On Apr 27, 2016 — Acclaimed Canadian artist Moyra Davey published her perennially relevant Mother Reader in 2001. Now, she reveals how motherhood continues to ... Solutions To Case 17 Healthcare Finance Gapenski Solutions To Case 17 Healthcare Finance. Gapenski. 3. 3. Dr. Samuel Myers and. Dr. Howard Frumkin, in mid-August. 2020. Together with. Planetary Health Case. Solutions To Case 17 Healthcare Finance Gapenski Welcome to our system where you can conveniently access a riches of resources in PDF style, all at your fingertips, anytime and anywhere. Gapenski's Cases in Healthcare Finance Sixth Editi... 105 CASE 17 Southeastern Homecare was founded in 1992 in Miami, Florida, as a taxable partnership by Maria Gonzalez, MD; Ramon Garcia, RN; and Ron Sparks, ... Cases in Healthcare Finance, Seventh Edition The book's 33 cases explore financial management and accounting in a variety of healthcare settings, such as hospitals, clinics, medical practices, home health ... Chapter 17 Solutions | Gapenski's Healthcare Finance: An ... Access Gapenski's Healthcare Finance: An Introduction to Accounting and Financial Management, Seventh Edition 1st Edition Chapter 17 solutions now. Chapter 17.pdf - Healthcare Finance: An Introduction to... Healthcare Finance: An Introduction to Accounting & Financial Management, Sixth Edition by Louis C. Gapenski and Kristin L. Reiter Health Administration Press. Gapenski's Cases in Healthcare Finance, Sixth Edition The cases are supported by an extensive array of ancillary resources—including spreadsheet models for both instructors and students, case questions and ...

Healthcare Finance 6th Edition Textbook Solutions Access Healthcare Finance 6th Edition solutions now. Our solutions are written by Chegg experts so you can be assured of the highest quality! Gapenski's Cases in Healthcare Finance Dec 1, 2017 — Case Solution 1 - 1. CASE 1 SOLUTION. NEW ENGLAND HEALTHCARE. Premium Development. Case Information. This case requires students to develop a ... Finance Case Presentations Gapenski, Healthcare Finance: An Introduction to Accounting and Financial ... Student Health at Shands offers a variety of clinical services. The clinic is ... The Ex Factor The Ex Factor. The Ex Factor Guide. Please select your gender: MEN, Click Here ». WOMEN, Click Here ». View Full Site View Mobile Site. About ... The Ex Factor Guide by Brad Browning The Ex Factor Guide helps you fix issues with your old relationships such as jealousy and fighting, this program teaches you how to use the best methods, 10 ... Does anyone have anything to say about the Ex-Factor ... There's really no big secret to breaking up. Stop contact until you're healed, at least. Socialize normally, do the things you enjoy, learn who ... How do I use the method of an ex-factor guide review? Mar 20, 2020 — Understand the reasons for the breakup: Before attempting to get your ex-partner back, it's important to understand why the breakup occurred in ... The Ex Factor Guide 2.0 Review 2024 ☐ Nov 4, 2023 — The Ex Factor Guide 2.0 offers guidance on how to avoid common mistakes that often hinder relationship recovery. By learning from others' ... The Ex Factor | Guide to Getting Your Ex Back Men Click Here. Women Click Here. The Ex Factor Guide by Brad Browing Review (Update 2023) Jan 7, 2023 — The Ex Factor Guide by Brad Browing Review (Update 2023) ... If you decide to get your ex back, I believe that The Ex Factor Guide can increase ... The Ex Factor Review (2023): Will it Help You Get Your Ex ... Summary · The Ex Factor is a digital program designed by Brad Browning to help individuals win back their ex-girlfriend or ex-boyfriend. • The program is based on ... (PDF) The Ex Factor Guide by Brad Browning Nov 10, 2023 — The Ex Factor Guide is a powerful resource designed to help you understand the dynamics of relationships and provide you with practical ...