

Full Length Research Paper

Economy-wide effects of drought on South African Agriculture: A computable general equilibrium (CGE) analysis

Sifiso Ntombela^{1*}, Bonani Nyhodo², Simphiwe Ngqangweni², Heidi Phahlane³ and Moses Lubinga¹

¹Department of Public Enterprises, University of Pretoria, South Africa.

²National Agricultural Marketing Council, South Africa.

³Department of Agriculture, Forestry and Fisheries, South Africa.

Received 24 August, 2016; Accepted 19 October, 2016

South Africa's agricultural sector is comprised of livestock, field crops and fruit in their order of size, in gross value terms. Agriculture in South Africa accounts for a relatively low share in the economy (3% of gross domestic product - GDP), 6% of employment and about 10% of exports (over R144 billion in 2015). Currently (2015/16), South Africa is experiencing the worst drought in over 100 years, which has resulted in significant effects on agriculture, with eight of the nine provinces being declared disaster areas. The motivation of the study was to understand the severity of drought on agriculture as well the impact on the whole economy (to quantify the economy-wide effects/losses emanating from the drought). To quantify these effects a single-country computable general equilibrium (CGE) model was used. Four scenarios were developed: Impact of field crops losses; impact of livestock losses; impact of aggregated agriculture losses; and impact of aggregated agriculture losses plus drought relief. The analysis shows that all scenarios led to a negative impact on GDP, employment and exports while the drought relief was found to have saved some jobs, albeit not significantly.

Key words: Drought, computable general equilibrium (CGE) model, field crops, livestock and fruit, GEMPACK.

INTRODUCTION

Based on gross value of production, South Africa's agricultural sector is comprised of livestock (e.g. beef, poultry, game, sheep and others) as the biggest sub-sector, followed by field crops (e.g. maize, wheat, sugar, beans, barley, sorghum and oilseeds) and fruit (e.g. fruits, nuts, flowers and vegetables). Agriculture accounts a relatively small share in the economy (3% of GDP),

6% of employment and about 10% of exports (over R144 billion in 2015) (StatsSA, 2015). From a developmental viewpoint, agriculture plays a pivotal role in ensuring food security and providing jobs for low skilled people in the country. Furthermore, agriculture provides raw materials to secondary sectors such as manufacturing and retail which reduces the country's dependency on international

*Corresponding author. E-mail: sifiso.ntombela@dpe.gov.za.

Author(s) agree that this article remain permanently open access under the terms of the [Creative Commons Attribution License 4.0 International License](https://creativecommons.org/licenses/by/4.0/)

Economics Of African Agriculture

David C. Catt



Economics Of African Agriculture:

Economics Of African Agriculture Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Economics Of African Agriculture**," written by a very 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 into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

http://www.pet-memorial-markers.com/files/virtual-library/Download_PDFS/estudios%20de%20literatura%20espanola.pdf

Table of Contents Economics Of African Agriculture

1. Understanding the eBook Economics Of African Agriculture
 - The Rise of Digital Reading Economics Of African Agriculture
 - Advantages of eBooks Over Traditional Books
2. Identifying Economics Of African Agriculture
 - 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 Of African Agriculture
 - User-Friendly Interface
4. Exploring eBook Recommendations from Economics Of African Agriculture
 - Personalized Recommendations
 - Economics Of African Agriculture User Reviews and Ratings
 - Economics Of African Agriculture and Bestseller Lists

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

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Economics Of African Agriculture free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Economics Of African Agriculture free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Economics Of African Agriculture free PDF files is

convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and verify the authenticity of the source before downloading Economics Of African Agriculture. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Economics Of African Agriculture any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Economics Of African Agriculture Books

What is a Economics Of African Agriculture 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 Of African Agriculture 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 Of African Agriculture 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 Of African Agriculture 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 Of African Agriculture 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 Of African Agriculture :

[estudios de literatura espanola](#)

[essentials costa del sol](#)

[essential rock for horn horn horn](#)

[estimation of the time since death in the early post mortem period](#)

estados fronterizos los

[estimation theory with applications to communications and control](#)

[eternally young a guide to aging well](#)

[estudios lexicos primera serie](#)

[estudios de poa tica la obra en sa persiles 95](#)

[eternal day the christian alternative to secularism and modern psychology](#)

[ethan frome complete unabridged](#)

[essentials of teaching academic oral communication](#)

et contact blueprint for a new world

[essentials for high school mathematics by cohen](#)

esterhazy rabbit prince

Economics Of African Agriculture :

Chevy Chevrolet Venture Service Repair Manual 1997- ... Dec 5, 2019 - This is the COMPLETE Service Repair Manual for the Chevy Chevrolet Venture. Production model years 1997 1998 1999 2000 2001 2002 Chevrolet Venture (1997 - 2005) Detailed repair guides and DIY insights for 1997-2005 Chevrolet Venture's maintenance with a Haynes manual ... Online editions are online only digital products. What causes electrical power loss in my 2000 Chevy ... Feb 12, 2010 — Today our 2000 Chevy Venture lost all electrical power when the van was turned off after putting it in the ga- everything went totally dead. Service & Repair Manuals for Chevrolet Venture Get the best deals on Service & Repair Manuals for Chevrolet Venture when you

shop the largest online selection at eBay.com. Free shipping on many items ... Chevrolet Venture 1997 1998 1999 2000 2001 2002 2003 ... Chevrolet Venture 1997 1998 1999 2000 2001 2002 2003 2004 2005 Service Workshop Repair manual. Brand: General Motors; Product Code: Chev-0049; Availability: In ... 2000 Chevy Venture part 1.mp4 - YouTube User manual Chevrolet Venture (2000) (English - 429 pages) Manual. View the manual for the Chevrolet Venture (2000) here, for free. This manual comes under the category cars and has been rated by 14 people with an ... Free Vehicle Repair Guides & Auto Part Diagrams Learn how to access vehicle repair guides and diagrams through AutoZone Rewards. Sign up today to access the guides. How to Replace Ignition Coil 97-04 Chevy Venture ... - YouTube 1999 Chevy Venture Driver Information Center Repair Mar 12, 2011 — 1999 Chevy Venture Driver Information Center Repair. I researched and finally found a fix for non functioning Driver Information Center. Contents - Social Studies School Service Answer Key 52. Activities ... Weston Walch, Publisher. 1. Find the Errors! II. Find the Errors! II Pretest. j weston walch publisher worksheets answers math 4 days ago — J Weston Walch Publisher Worksheets Copy - KrisCarr. Kitchen Math.com.. Where To Download Answer Key Weston Walch Hamlet Pdf . Click on pop ... The Complete Guide to Shakespeare's Best Plays Answer Key. 8. When you introduce a play, you might ask students to look at ... Weston Walch, Publisher. 32. The Complete Guide to Shakespeare's Best Plays. The Treasure of Power - Rivendell School Jan 27, 2020 — To gain deeper understanding of power of words, we will study the life and works of William. Shakespeare, who captured the human condition so ... lesson 1: outlining "getting acquainted with shakespeare" 1610 - Stratford / New Place. When did Shakespeare retire and where did he go? When did he die? April 23 1616. What was the eventual ... Weston Walch. Publisher. Contents - Social Studies School Service Answers for each lesson are included in the. Answer Key. 8. When you ... Weston Walch, Publisher. 1. The Complete Guide to Shakespeare's Best Plays. Getting ... Free download Reteaching activity chapter [PDF] Mar 1, 2023 — answer key weston walch hamlet (2023) · 2004 suzuki gsxr 1000 service manual (Read Only) · human geography ethel wood answers .pdf. Shakespeare Made Easy: Hamlet:grades 7-9 Book details ; Print length. 68 pages ; Language. English ; Publisher. J Weston Walch Pub ; Publication date. 1 August 2003 ; Dimensions. 21.59 x 0.25 x 27.31 cm. Find the Errors! Each item in both tests exemplifies one or more major writing errors. Each writing error has been correlated in the Answer Key with the exercises in Find the ... [a basic text for individualized study] (The Radio amateur's ... A course in radio fundamentals;: [a basic text for individualized study] (The Radio amateur's library, publication) [Grammer, George] on Amazon.com. A course in radio fundamentals on the part of radio amateurs for a course of study emphasizing the fundamentals upon which practical radio communication is built. It originally appeared ... A Course in Radio Fundamentals A Course in Radio Fundamentals. Lessons in Radio Theory for the Amateur. BY GEORGE GRAMMER,* WIDF. No. 6-Modulation. THE present installment deals with various. A course in radio fundamentals : study assignments ... A course in radio fundamentals : study assignments, experiments and examination questions, based on the radio amateur's handbook. A course in radio fundamentals; study

assignments ... Title: A course in radio fundamentals; study assignments, experiments, and examination questions. No stable link: A Course in Radio Fundamentals - George Grammer A Course in Radio Fundamentals: Study Assignments, Experiments and ... George Grammer Snippet view - ... course radio fundamentals A course in radio fundamentals : study assignments, experiments and examination... Grammer, George. Seller: Dorothy Meyer - Bookseller Batavia, IL, U.S.A.. A Course in Radio Fundamentals RADIO FUNDAMENTALS in the common lead between the source of voltage and the parallel combination? 13) What are the reactances of the choke coil and fixed ... A Course in Radio Fundamentals - A Basic Text for ... A Course in Radio Fundamentals - A Basic Text for Individualized Study - No. 19 of the Radio Amateur's Library. Grammer, George. Published by The American Radio ...