

## PROFITABILITY AND CONSTRAINTS OF PINEAPPLE PRODUCTION IN OSUN STATE, NIGERIA

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### ABSTRACT

Pineapple is a delicious tropical fruit with a fine flavour and high nutritive value. It is one of the most important commercial fruit crops in the world. Despite its popularity, no proper data on the costs of its production in Nigeria are available. The study determines profitability and constraints of pineapple production in Osun State, Nigeria. Multistage sampling technique was used to obtain information from 50 respondents using purposive and random selection. Data collected were analysed using descriptive statistics and budgetary technique. Results indicated that majority of the farmers were males, aged 53.7 years on average and engaged full time in pineapple production. The modal level of farmer's education was primary. The average period of experience in pineapple farming was 13.5 years. The gross margin and net profits in Naira (Nigerian currency) were ₦182 725 and ₦1 62 045, respectively. The questionnaire in the study contained the most serious problems confronting pineapple farmers: limited availability of high quality planting materials, high fruit perishability, low fruit prices, low access to credits and plant diseases. Availability of high yielding pineapple varieties, establishment of cold storages to reduce fruit perishability, agricultural price support programmes, easier access to credit from formal sources and farmers' education were considered essential to improve productivity and profitability of pineapple production in Nigeria.

**Key words:** *Ananas comosus*, costs and profitability of production, constraints of production, Nigeria

### INTRODUCTION

Pineapple (*Ananas comosus* L.) Merr.) belongs to the family *Bromeliaceae*. It is known as the queen of fruits because of its excellent flavour and taste. According to Ubi et al. (2005), the pineapple plants are drought tolerant and well adapted to the tropical sandy soils with pH ranging from 4.5 to 6.5. The plants are propagated from suckers or from the crowns, which grow on top of the fruit. It is one of the most important commercial fruit crops in the world available throughout the year. Pineapple production in 2011 constituted more than 19 million MT (metric tons) (FAOSTAT 2013). Thailand is the largest producer of pineapple, accounting for 13% of global output, followed by Brazil and Costa Rica. Production of pineapple in Nigeria accounted 1.4

million MT in 2011 (about 7% of the world production), which placed it in the seventh position (FAOSTAT 2013). The fruits are used mainly for fresh consumption and fruit juice, while in some parts of the world the fermented juice is used to make vinegar and alcoholic spirit. Leaves can be used in three forms: fresh, dried and in silage (Geocoppens 2001). Centrifuge sludge left over from juice production may be used as pork feed (FAO 2004), while fruit core is used for preparing candy. The leaves yield a silky fibre, which is used for making a fine fabric popularly known as pifa cloth in the Philippines and Taiwan. Pineapple fibres in some countries are exploited for paper production. Pineapple is also used as ornamentals symbolizing welcome, high living and opulence.

Pineapple is a well-positioned fruit since its trade is oriented towards developed countries such

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## **Profitability And Constraints Of Pineapple Production In:**

*Diagnosis of the Pineapple Industry in Guyana: Major Constraints and Perspectives* Natacha Rouffiange,1993 **Food and Agricultural Byproducts as Important Source of Valuable Nutraceuticals** Chukwuebuka Egbuna,Barbara Sawicka,Johra Khan,2022-07-12 Food and agricultural by products are leftovers or wastes from parts of foods fruits vegetables and animal sources which are obtained after processing Agricultural by products includes peels and rinds from citrus fruits pineapple mango and banana Other notable ones are pomace from apple olive red beet and those from wine making Also whey from milk straws hulls and brans from grains are among top agricultural by products These by products often impact the environment and the social economic sectors when they are disposed But with the recent advances in biotechnology and scientific research scientists have found usefulness in some of these byproducts as sources of valuable nutraceuticals a term used to refer to chemical entities present in foods that has the propensity to impact health for disease prevention and treatment This book entitled Food and agricultural by products as important source of valuable nutraceuticals presents detailed information about major agricultural byproducts that are rich in nutraceuticals The nature and the type of nutraceuticals that they contains and their health promoting benefits were presented The editors and chapter contributors are renowned experts from key institutions around the globe This book will be useful to students teachers food chemists nutritionists nutritional biochemists food biotechnologists among others Key features Highlights the health promotion benefits of nutraceuticals Presents information on agrifood by products as sources of nutraceuticals Discusses functional nutraceuticals from peels rinds pomace hull bran etc Mobile Computing and Sustainable Informatics Subarna Shakya,Klimis Ntalianis,Khaled A. Kamel,2022-07-15 This book gathers selected high quality research papers presented at International Conference on Mobile Computing and Sustainable Informatics ICMCSI 2022 organized by Pulchowk Campus Institute of Engineering Tribhuvan University Nepal during 27 28 January 2022 The book discusses recent developments in mobile communication technologies ranging from mobile edge computing devices to personalized embedded and sustainable applications The book covers vital topics like mobile networks computing models algorithms sustainable models and advanced informatics that supports the symbiosis of mobile computing and sustainable informatics *Enhancing Efficiency in Agriculture* Mekonen Debara,Teklu Gebretsadik,Emmanuel Chahul Sumaka,Desalegn Mamo,Armara Macimiliam Galwab, TOPICS IN THE BOOK Assessment of Knowledge Attitude and Practice of the Local Community on Watershed Management at Kindo Koysha Woreda Of Wolayta Zone Southern Ethiopia Comparative Ananalysis of Income of Smallholder Cereals and Legumes Crop Enterprises in Nasarawa State Nigeria Assessment of Farmers Management Activities on Scattered Trees on Crop Fields at Gemechis District West Hararge Zone Oromia Ethiopia Effect of Water Harvesting Techniques on Grain Yield and Above Ground Biomass of Cowpea **Constraints in the Kenyan Fruit Juice Processing Industry** Mark D. Wenner,1993 **Advances on Genomics and Genetics of Horticultural Crops and their Contribution to Breeding**

**Efforts, volume II** Eleni Tani,Aliki Xanthopoulou,Christos Bazakos,2024-03-06 Horticultural crops are an excellent source of vitamins antioxidants and fibers that play an important role in human health The discovery of modern genomic tools the continuous generation of genomic data and the application of comparative and functional genomics are high importance innovations with numerous applications in crop breeding The utilization of all these new techniques in combination with the analysis of genomic data using bioinformatics tools contribute to a better understanding of the function of various agronomic traits of interest as well as horticultural crops breeding Over the last few years novel genome editing tools such as the CRISPR Cas9 have been developed and revolutionized molecular technologies due to their simplicity high efficiency and specificity Advanced Manufacturing Techniques for Engineering and Engineered Materials Thanigaivelan, R.,Rajan, N.,Argul, T.G.,2022-03-11 As technology advances it is imperative to stay current in the newest developments made within the engineering industry and within material sciences Trends in manufacturing such as 3D printing casting welding surface modification computer numerical control CNC non traditional Industry 4 0 ergonomics and hybrid machining methods must be closely examined to utilize these important resources for the betterment of society Advanced Manufacturing Techniques for Engineering and Engineered Materials provides a unified and complete overview about the recent and emerging trends developments and associated technology with scope for the commercialization of techniques specific to manufacturing materials This book also reviews the various machining methods for difficult to cut materials and novel materials including matrix composites Covering topics such as agro waste conventional machining and material performance this book is an essential resource for researchers engineers technologists students and professors of higher education industry workers entrepreneurs researchers and academicians **Jahangirnagar University Journal of Science** ,2015 Responsible Fruits Project follow-up survey results Food and Agriculture Organization of the United Nations,2024-07-24 The project Building responsible global value chains for the sustainable production and trade of tropical fruits the Responsible Fruits Project supports avocado and pineapple industry actors to strengthen or establish risk based due diligence systems with the aim of making their operations more sustainable and resilient to shocks In 2021 a baseline survey was conducted targeting avocado and pineapple producers packers and their organizations and trade associations collectively referred to as companies in this report for the sake of simplicity In March 2024 a follow up survey was undertaken with 44 avocado or pineapple companies who had actively participated in the Responsible Fruits Project The objectives of the follow up survey were to 1 Update existing information on sustainability challenges faced by avocado and pineapple companies to understand if these challenges have changed and if any progress has been made on addressing previously identified problems and risks 2 Identify the extent to which project participants have been able to incorporate information and outputs from the project to support their business in a positive way and 3 Find out if project participants are interested in establishing a multistakeholder initiative as a means of moving beyond the project in the future This is the full report on the follow up

survey and an analysis of its results A brief summary report is also available      *Fundamentals of operations management*

María Teresa Nogueras Lozano, Eva Ballesté-Morillas, We want to welcome you to both an exciting and tactical discipline operations management This manual on Fundamentals of operations management is an effective tool to understand one of the main functions of any organisation the creation of goods and services That is to understand what resources are needed to generate the goods and services of an organisation in a global and highly competitive environment while also incorporating new technologies In this manual along with the classic fundamentals of operations management we will look forward towards what is coming and how it will impact process improvement in companies The main goal of this book is to equip the reader with the fundamental concepts in operations management To do this it will present the main qualitative and quantitative models for managing operations both in public and private companies As the reader will see the chapters are structured with an easy to follow and rigorous thematic thread that will make each and every step understandable All this book has been designed with a distance learning student or a self taught reader such as an entrepreneur in mind We aim to facilitate the learning of a discipline that for years has been considered complicated and specifically focused on certain professions and to highlight its relevance and future opportunities We strive for the reader to enjoy learning from this manual and to discover an exciting discipline with many career opportunities The book combines both theory and practical exercises with real life cases whose examples will allow the learner to understand the day to day and the myriad of challenges and opportunities faced by operations management The manual covers classic management topics such as process design inventories demand forecasting etc as well as newer concepts such as digitisation of the supply chain As for the way the content is conveyed we have opted for a simple language that facilitates understanding while also being rigorous and precise The methodology used is distance learning which means that this manual is mainly intended for self learning and consequently its structure is designed to promote the understanding of its contents To achieve this goal 1 The text is divided into eight chapters that present a logical and coherent sequence to understanding what operations management consists of Chapter I Operations in the Current Environment defines what operations are in a company teaching the reader about the evolution of this discipline in a global environment The chapter shows the importance of the company s competitiveness generators and explains key concepts such as the value chain the extended network and digitisation which are crucial in current production processes and serve as an introduction to other concepts that will be explained in further detail in the following chapters which are aimed to teaching how to achieve a right tactical decision making in operations management Chapter II Managing Operations addresses the main topics in the day to day of operations management in order to get the reader in the context of the type of decisions that must be made in matters related to the supply chain inventory management costs planning the necessary materials project management among others and understand the implications of such decisions in the proper functioning of the company After having defined what operations are Chapter I and the types of decisions that need to be

made for a successful operation Chapter II Chapter III Tools to Support Decision Making in Operations aims to provide the necessary tools to support decision making in two main categories quantitative and qualitative techniques Quantitative techniques include decision trees linear programming transportation modelling queuing models learning curves simulations and sales forecasting On the other hand qualitative techniques include concepts such as judgment based on experience customer surveys and the Delphi method By understanding these techniques readers will be able to delve into key concepts in the following chapters in order to properly plan resources to respond to anticipated demand while avoiding cost overruns and waste and aligning with the company's production capacity Chapter IV Aggregate Planning addresses medium term production planning which typically spans between 6 and 18 months Its main objective is to meet demand which requires determining the production quantity inventory levels and the amount of work or labour force needed by the company whether in house or outsourced To achieve this it is necessary to develop an Aggregate Production Plan which is essential for an efficient production As determining the inventory level is one of the key factors in Aggregate Planning this manual devotes two chapters to inventory management Chapter V Inventory Management Independent Demand and Chapter VI Inventory Management Dependant Demand In both chapters inventory management and being able to determine the optimal quantity of supplies that should be ordered are critical factors for the company's costs and productivity Therefore calculating the optimal order quantity is the central focus of both chapters The decision to divide inventory management into two chapters is mainly due to the methods used to determine the optimal order quantities which differ for materials with dependent and independent demand For the latter case classic or traditional methods Chapter V are not valid initial assumptions change and more complex systems such as MRP Material Requirements Planning studied in Chapter VI of this manual are required In addition inventory management has become a critical factor for a company's competitiveness in today's globalized world The emergence of philosophies or approaches that practically eliminate inventory such as the Just In Time JIT or Lean Manufacturing systems cannot be overlooked so they have their space in Chapter VI Chapter VII Operational Scheduling constitutes the final link in operations management Operational scheduling or short term planning translates medium to long term plans into short term decisions aimed at allocating human resources machines and materials in the workplace to plan the most optimal work sequence possible In short it translates the Master Production Schedule Chapter IV and MRP Chapter VI into work sequences and specific assignments of people materials and machines to the work centres Usually assignments are made on a weekly daily and even hourly basis The last chapter Chapter VIII Quality in the Age of Planned Obsolescence tackles the concept of quality from the perspective of operations management and how it has evolved towards process improvement theories while addressing the phenomenon of planned obsolescence waste generation and the ethical commitment of operations management to preserve the environment 2 Each chapter is structured as follows The title that identifies it A descriptive content section of its main sections The educational goals to be achieved after studying it Keywords

An outline that orderly structures the content A summary that presents the most important contents and ideas of the chapter The text itself is complemented by graphics examples diagrams and practical situations that occur in our business reality and highlight the application of theoretical concepts Glossary of terms A series of self assessment questionnaires for every chapter that aims to evaluate the reader s degree of understanding of its contents in the online portion of the manual Recommended readings in the online portion of the manual to reinforce the contents learned through articles manuals or a combination of both that will allow the reader to establish their learning of all the key issues Some chapters are also reinforced with videos found on the Internet that contain practical application cases of the studied contents As can be seen this book concludes with an extensive bibliography made up of manuals related to Operations Management Finally it is our wish that the reader enjoys the manual and that it opens the doors to new and interesting opportunities for them Dr M Teresa Nogueras Lozano Dr Eva Ballest Morillas

### **Tools for Land Use Analysis on Different Scales** Bas

Bouman,2013-12-19 This book reflects the results of more than ten years of cooperative research involving Wageningen Agricultural University y l AU in the Netherlands the Tropical Agricultural Research and Higher Education Center CATIE Centro Agronómico Tropical de Investigación y Enseñanza in Costa Rica and the Costa Rican Ministry of Agriculture and Livestock MAG Ministerio de Agricultura y Ganadería as part of the Research Program on Sustainability in Agriculture REPOSA in the Central American country The type of cooperation was unusual as it focused on both research and the education of students undertaking either M Sc thesis projects or a program of practical training in the various aspects of studying land use Since funding was provided by W AU a high degree of scientific autonomy was created that has clearly benefited the independent scientific rigor of the work Over the ten year period the program has changed from being a patchwork of various insulated specialist projects into a truly interdisciplinary effort leading to the development of innovative tools for analyzing land use on a number of geographical scales These tools are presented in this book Besides CATIE and MAG cooperation with other Costa Rican partner institutions has been essential from the beginning and this process of interaction has also evolved considerably over time

### **Economies after Colonialism** Lindsay Whitfield,2018-06-21

Despite Ghana s strong democratic track record in recent decades the economy remains underdeveloped Industrial policies are necessary to transform the colonial trading economy that Ghana inherited at independence but successive governments have been unwilling or unable to implement them In this highly original interpretation supported by new empirical material Lindsay Whitfield exposes the reasons for why the Ghanaian economy remains underdeveloped and sets her theory in the wider African context She offers a new way of thinking about the political economy of Africa that charts a clear path away from defining Africa in terms of neopatrimonial politics and that provides new conceptual tools for addressing what kind of business state relations are necessary to drive economic development As a study of Ghana that addresses both the economy and politics from early colonialism to the present day this is a must read for any student or scholar interested in the political

economy of development in Africa      *A Pacific Industry* Richard A. Hawkins, 2011-09-30 The Hawaiian pineapple industry emerged in the late nineteenth century as part of an attempt to diversify the Hawaiian economy from dependence on sugar cane as its only staple industry Here economic historian Richard A Hawkins presents a definitive history of an industry from its modest beginnings to its emergence as a major contributor to the American industrial narrative He traces the rise and fall of the corporate giants who dominated the global canning world for much of the twentieth century Drawing from a host of familiar economic models and an unparalleled body of research Hawkins analyses the entrepreneurial development and twentieth century migration of the pineapple canning industry in Hawaii The result is not only a comprehensive history but also a unique story of American innovation and ingenuity amid the rising tides of globalization      **Potential for**

**Small-Scale Processing and Marketing of Tropical Fruits in the Kandy, Galle and Horana Divisional Secretariat Divisions of Sri Lanka. Research Report No. 1.** ,      *Abstracts on Tropical Agriculture* ,1990      *Delivering Sustainable*

*Growth in Africa* Takahiro Fukunishi, 2013-12-17 The purpose of this book is to fill the lack of micro evidences on a structural change of African producers By collecting studies on single industries we attempt to demonstrate firms and farmers responses to the recent economic trend such as growth of demand emergence of FDI and improvement in infrastructure

Applications of Systems Approaches at the Farm and Regional Levels P.S. Teng, M.J. Kropff, H.F.M. ten Berge, J.B. Dent, F.P. Lansigan, H.H. Van Laar, 2012-12-06 Systems approaches for agricultural development are needed to determine rational strategies for the role of agriculture in national development Mathematical models and computer simulation provide objective tools for applying science to determine and evaluate options for resource management at field farm and regional scales However these tools would not be fully utilizable without incorporating social and economic dimensions into their application The second international symposium Systems Approaches for Agricultural Development held in Los Ba os 6 8 December 1995 fostered this link between the bio physical sciences and the social sciences in the choice of keynote papers and oral presentations a selection of which is included in this book The book s contents further reflect how systems approaches have definitely moved beyond the research mode into the application mode The large number and high quality of interdisciplinary research projects reported from different parts of the globe to determine land use options that will meet multiple goals and yet sustain natural resource bases is a key indicator of this coming of age At the farm level where trade off decisions between processes and products commodities feature strongly much progress is also evident in the development of systems based tools for decision making This book will be of particular interest to all agricultural scientists and planners as well as students interested in multidisciplinary and holistic approaches for agricultural development      **New Directions for Smallholder Agriculture** Peter B. R. Hazell, Atiqur Rahman, 2014-03-06 The majority of the poor and hungry people in the world live on small farms and struggle to subsist on too little land with low input low yield technologies At the same time many other smallholders are successfully intensifying and succeeding as farm businesses often in combination with



diversification into off farm sources of income This book examines the growing divergence between subsistence and business oriented small farms and discusses how this divergence has been impacted by population growth trends in farm size distribution urbanization off farm income diversification and the globalization of agricultural value chains It finds that policy makers need to differentiate more sharply between different types of small farms than they did in the past both in terms of their potential contributions towards achieving national economic growth poverty alleviation and food security goals and the types of assistance they need The book distinguishes between smallholders that are business oriented subsistence oriented and at various stages of transition to the non farm economy and discusses strategies appropriate for assisting each type The book draws on a wealth of recent experience at IFAD and elsewhere to help identify best practice approaches The Forest Frontier Peter A. Furley, 2002-09-11 Destructive patterns of Amazonian evolution are now infecting relatively untouched Northern Brazil driven by the gold rush and demographic and economic forces from the South The Forest Frontier assesses whether the Northern Amazonian States can avoid the same pressures and problems that affect the peoples and environments of the South It examines the social and environmental nature of land development in Roraima the most northerly of the Brazilian Amazonian states Possessing most of the classic problems facing other States as well as containing a combination of political cultural and environmental features Roraima's development is at a frontier Offering a critical assessment of the nature and pace of agricultural advance into Roraima The Forest Frontier will provide a better understanding to plan for the inevitable development to come **Productivity Enhancing Technologies for Horticultural Crops** P. Parvatha Reddy, 2011-01-01 The average productivity of most horticultural crops in India is low There is a wide gap between yields obtained and potential yields with improved varieties and technologies Programmes therefore need to be taken up to reduce the yield gap by improving productivity The present book deals with productivity enhancing technologies such as use of high yielding varieties hybrids high density planting micro irrigation fertigation protected cultivation bio regulators biotechnological approaches integrated nutrient weed pest disease and nematode management in general and crop wise in particular The book is illustrated with excellent quality photographs enhancing the quality of publication The book is written in lucid style easy to understand language along with adoptable recommendations for enhancing the productivity

The Enigmatic Realm of **Profitability And Constraints Of Pineapple Production In**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Profitability And Constraints Of Pineapple Production In** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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