

## Research Article

Emmanuel Dokyi, Benjamin Tetteh Anang\*, Victor Owusu

# Impacts of Improved Seed Maize Technology Adoption on Productivity and Technical Efficiency in Northern Ghana

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**Abstract:** Improved seed is one of the crucial ingredients for promoting agricultural productivity, farmers' livelihood, and global food security. The present study uses an endogenous treatment regression model (ETRM) to evaluate the impacts of improved seed maize technology (ISMT) adoption on technical efficiency and productivity using data from maize farmers in northern Ghana. The findings show that ISMT adoption impacts positively on technical efficiency. Adoption of ISMT enhanced technical efficiency by 16.1% and increased maize productivity by 33.8%. The study recommends dissemination of improved maize seeds to farmers and other interventions such as provision of fertilizer to enhance farmers' technical efficiency and productivity.

**Keywords:** adoption; stochastic frontier analysis; technical efficiency; endogenous treatment-regression model; Tolon District.

**JEL Classification:** C21; D24; Q12

## 1 Introduction

Improved technology adoption is critical for agricultural productivity and livelihoods of small-scale farmers in developing countries. Promoting agricultural productivity and global food security requires improved seeds (Almekinders et al., 2019). Improved seeds are high-yielding, disease-resistant and drought-tolerant, which also respond well to inorganic fertilizer (Lee, 2020; Simtowe et al., 2019), whereas traditional seeds tend to have lower yields but are more adaptable to the local environment (Anang, 2019). Several efforts have been made toward crop varietal improvements in many less-developed countries, including Ghana in recent times (Anang, 2019; Danso-Abbeam et al., 2017; Ogada et al., 2014) but the rates of adoption have been below expectations (Spielman and Smale, 2017). Studies on adoption of modern and high-yielding seeds in sub-Saharan Africa exist in the literature (Eriksson et al., 2018; Walker and Alwang, 2015; Alene et al., 2009; Krishna and Quarm, 2008). Some of the studies argue that adoption of improved seed varieties remains low particularly among smallholder producers (Alene et al., 2009; Krishna and Quarm, 2008), and that even where improved seeds are perceived to be available, affordable, and profitable, most smallholder farmers find it difficult to invest in these technologies (Hoogendoorn et al., 2018). Growing body of literature on the adoption of agricultural technology has therefore suggested the rethinking of the way improved seed technology is generated, designed and disseminated to farmers, while finding ways to improve demand for and uptake of improved seed technologies by the

\*Corresponding author: Benjamin Tetteh Anang, Department of Agricultural and Food Economics, University for Development Studies, Tamale, Ghana, E-mail: benjamin.anang@uds.edu.gh

Emmanuel Dokyi, Department of Agricultural and Food Economics, University for Development Studies, Tamale, Ghana

Victor Owusu, Department of Agricultural Economics, Agribusiness and Extension, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

# Technical Guideline For Maize Seed Technology

**N. P. Louwaars**

A decorative graphic consisting of a red circular shape with a white center, partially obscured by a white horizontal bar that extends from the left edge of the slide.

## **Technical Guideline For Maize Seed Technology:**

**Technical Guideline for Maize Seed Technology** Food and Agriculture Organization of the United Nations,1982

**Maize productivity gains through research and technology dissemination** J. K. Ransom,1997      **Maize Seed Industries in Developing Countries** Michael L. Morris,1998 Divided into four parts this volume first lays out the importance of maize seed industries and presents a conceptual framework The second section describes the key products and processes associated with maize seed industries including varietal development marketing and industrial regulation The third section offers nine country case studies while the fourth part discusses the likely future course of seed industry development and alternative organizational forms Paper edition unseen 29 95 Annotation copyrighted by Book News Inc Portland OR      **Agricultural Seed Production** Raymond A. T. George,2011 A practical coverage of the principles of producing seeds for the main agricultural crops this book emphasises producing optimal quality seed and applies to small and large scale farms worldwide Cereals such as wheats rice barley rye and maize are covered along with pulses legumes oil seed rape and soybean Coverage includes principles of production such as pollination agronomy issues such as site selection and cultivar purity seed processing drying and storage A focus on global food security is maintained throughout

*Technical Guideline on Seed Potato Micropropagation and Multiplication* Raymond A. T. George,1986-01-01 Transfer from in vitro to compost for tuber production Field multiplication of tubers derived from cuttings Disease indexing Health and safety Composition of medium used for meristem culture Composition of medium used for cutting culture Testing for bacterial ring rot      Seed Production Technology International Center for Agricultural Research in the Dry Areas,1986 An introduction to seed production Seed industries in selected countries Physiology methodology processing and marketing Seed production in selected crops      **Vegetable Seed Production** Raymond A. T. George,2009 This third edition includes summaries at salient points within the first six chapters dealing with the principles and practice of vegetable seed production A suggested further reading list is provided at the conclusion of each of the 16 chapters The general updating of this third edition has included more detail on organic seed and its production and also considerations on genetically modified organisms The increased links between vegetables produced from true botanical seed and those predominantly propagated vegetatively i e the resulting planting material which is often referred to as seed have been added to this edition in Appendix 1

**Technical Guidelines for Field Variety Trials** J. M. Elena Rosselló,Martín Fernández de Gorostiza Ysbert,Food and Agriculture Organization of the United Nations,1993-01-01      Seed Supply Systems in Developing Countries N. P. Louwaars,1997      Guidelines for Seed Exchange and Plant Introduction in Tropical Crops Food and Agriculture Organization of the United Nations,1986-01-01      Seeds Handbook Babasaheb B. Desai,2004-04-22 Revised and expanded throughout this latest edition of the bestselling Seeds Handbook Biology Production Processing and Storage includes valuable information on all areas of seed biology production and processing The author one of the most respected and prolific

scientists in the field identifies current developments in seed testing and certification storage transportation and distribution Tracking the evolution and advancement of seed industries and technologies he fully covers the development and supply of high quality seeds for every key agronomic and horticulture crop Contains methods to enhance the genetic and physiological characteristics of more than 80 major and minor crops With an abundance of current research and additional figures and illustrations this edition of the Seeds Handbook offers chapters on modern biotechnological issues such as the production of synthetic seeds loss reduction biotechnologies and new strategies in the seed production industry It provides in depth information on burgeoning areas of seed science including tissue culture and cellular totipotency induction and regeneration protocols development and maturation hormone requirements drying and storage of somatic embryos protective encapsulation and crop applications With an eye to the future it looks at challenges in the provision and enhancement of seeds for crop plants practical methods of seed production and micropropagation genetically modified seeds and world food security

**List of FAO Documents** Food and Agriculture Organization of the United Nations,1985 *Technical Guideline for Sorghum and Millet Seed Production* Kuldip R. Chopra,1982 *Seed Production of Agricultural Crops* A. Fenwick Kelly,1988 Practical guide to producing crop seeds that are viable and free from weeds Details all basic requirements including the need to preserve the genetic quality of seed during multiplication and precautions that ensure abundant high quality yields Some topics covered include seed quality and quality control marketing and distribution cereals forage legumes crucifers and fodder beet Acidic paper Annotation copyrighted by Book News Inc Portland OR *FAO Publications Catalogue* Food and Agriculture Organization of the United Nations,1987

**Seed Science and Technology** Malavika Dadlani,Devendra K. Yadava,2023-02-28 This open access edited book is a collection of 17 chapters synthesized primarily from the lectures delivered by eminent Indian and international experts during a series of capacity building programmes organised in India during 2020 and 2021 under the aegis of Indo German Cooperation on Seed Sector Development a component of the Bilateral Cooperation between the Governments of India and Germany Seed Science and Technology a multi disciplinary subject is advancing rapidly keeping pace with the development of improved plant varieties and other climate resilient technologies Knowledge of the underlying biological processes and application of appropriate technologies for variety maintenance and seed production quality assurance testing and enhancement processing packaging and storage etc are important in a seed programme Chapters presented in the book is a blend of basic seed biology covering seed development maturation dormancy germination vigour and invigoration and seed deterioration variety maintenance and production of genetically pure seed of open pollinated and hybrid varieties in a few key field crops and vegetables and fundamentals of seed processing packaging and storage and seed quality assurance systems followed in different countries testing the essential components of seed quality including seed health application of molecular technologies for precision in testing and enhancement of seed quality It concludes by identifying the key areas of future seed research and technology

development The book covers the fundamentals and recent advances of seed science and technology with the latest research information and an exhaustive and updated list of references on different topics It is expected to benefit the students as well as the scientists faculty members and seed sector professionals working in the public and private seed sectors certification authorities and seed producing agencies in India and elsewhere      **Seed Technology and Its Biological Basis** Michael Black,J. Derek Bewley,2000 Edited by a renowned seed biologist with a team assembled from the most respected laboratories worldwide Seed Technology and Its Biological Basis illustrates the commercial value of seeds as a major resource The editors provide a sweeping overview of the current state of the art in seed technology and its biological basis The book is invaluable to researchers and professionals in both the industrial and academic sectors      **Abstracts on Tropical Agriculture** ,1982

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