

Adoption of Bioengineered Crops

Jorge Fernandez-Cornejo and William D. McBride

Introduction

Technological change has been acknowledged as a critical component of productivity and economic growth (Solow, 1994; Griliches, 1995). The rapid adoption and diffusion of new technologies within the U.S. agricultural sector has resulted in sustained agricultural productivity growth and ensured an abundance of food (Huffman and Evenson, 1993; Alston and Pardey, 1996; Ball et al., 1997). However, since technological change can affect employment, trade, real wages, and profits, the adoption of new technologies may trigger asymmetric effects on different sectors of the economy.

International competitiveness and environmental issues have also been linked to technological innovation and adoption (Stoneman, 1995). Furthermore, technology policy issues have surfaced during discussions about the appropriate role of the public sector (e.g., level of public research and development funding) in fostering new innovations and promoting their adoption (Feder and Umali, 1993). Because of the economic opportunities and challenges that new technologies offer, the technology innovation and adoption process continues to interest economists, sociologists, and policymakers.

Economists and sociologists want to understand what causes adoption rates to differ and what constrains the rapid adoption of innovations. Several researchers have examined the influence of farmers' attributes on the adoption of agricultural innovations (Rahn and Huffman, 1984; Caswell and Zilberman, 1985). In the past, most adoption studies focused on technological innovations that increase productivity. Studies have since shifted their focus toward adoption of agricultural technologies that affect environmental quality and conserve scarce natural resources. Thus, during the 1970s and 1980s, studies proliferated on the adoption of environmentally preferable technologies such as IPM (Fernandez-Cornejo, Jans, and Smith, 1998).

More recently, U.S. farmers are adopting biotechnology innovations that, beyond their impact on

productivity, have also caused environmental and consumer concerns, particularly in Europe. These innovations (bioengineered crops) are embedded in the seeds and derive from the use of genetic engineering (GE) techniques.

Genetic engineering modifies organisms by recombinant DNA techniques. These techniques allow a more precise and time-saving alteration of a plant's traits, facilitating the development of characteristics that are not feasible through traditional plant breeding. Genetic engineering also allows scientists to target a single plant trait, thus decreasing the number of unintended characteristics that often accompany traditional breeding techniques, and increasing the speed at which breeders can develop new varieties. The first generation of bioengineered crops includes crops with pest management traits, including crops carrying genes (such as the gene from the soil bacterium Bt, *Bacillus thuringiensis*) selected for resistance to certain insects and/or tolerance to specific herbicides.

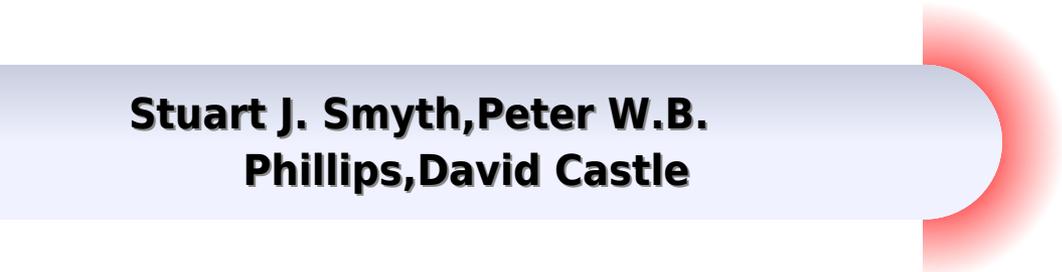
This report discusses the adoption of GE crops with pest management traits, which has risen dramatically since commercial introduction in the mid-1990s. Issues related to the adoption of these bioengineered crops—including farm impacts, consumer acceptance, environmental safety, and others—are among the leading concerns affecting U.S. agriculture. Because of the controversy surrounding these issues and the continual introduction of new technologies, there is great need for objective measurement and analysis of all components of overall social welfare implications of GE crops—including the farm-level impacts.

Factors Shaping Adoption of Bioengineered Crops

An innovation's profitability, compared with traditional alternatives, has been regarded as the primary motivation behind adoption. This would suggest that the widespread adoption of genetically engineered crops follows from their perceived profitability over traditional methods. However, other factors like

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**Stuart J. Smyth, Peter W.B.
Phillips, David Castle**



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Adoption of Bioengineered Crops William D. McBride, Jorge Fernandez-Cornejo, U. S. Department of Agriculture, 2005 Use of crop biotechnology products such as genetically engineered GE crops with input traits for pest management has risen dramatically since commercial approval in the mid 1990s This report addresses several of the economic dimensions regarding farmer adoption of bioengineered crops including herbicide tolerant and insect resistant varieties In particular the report examines 1 the extent of adoption of bioengineered crops their diffusion path and expected adoption rates over the next few years 2 factors affecting the adoption of bioengineered crops and 3 farm level impacts of the adoption of bioengineered crops Data used in the analysis are mostly from USDA surveys [Adoption of Bioengineered Crops](#) Jorge Fernandez-Cornejo, William D. McBride, 2002 Use of crop biotechnology products such as genetically engineered GE crops with input traits for pest management has risen dramatically since commercial approval in the mid 1990s This report addresses several of the economic dimensions regarding farmer adoption of bioengineered crops including herbicide tolerant and insect resistant varieties

The Impact of Genetically Engineered Crops on Farm Sustainability in the United States National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on the Impact of Biotechnology on Farm-Level Economics and Sustainability, 2010-08-26 Since genetically engineered GE crops were introduced in 1996 their use in the United States has grown rapidly accounting for 80-90 percent of soybean corn and cotton acreage in 2009 To date crops with traits that provide resistance to some herbicides and to specific insect pests have benefited adopting farmers by reducing crop losses to insect damage by increasing flexibility in time management and by facilitating the use of more environmentally friendly pesticides and tillage practices However excessive reliance on a single technology combined with a lack of diverse farming practices could undermine the economic and environmental gains from these GE crops Other challenges could hinder the application of the technology to a broader spectrum of crops and uses Several reports from the National Research Council have addressed the effects of GE crops on the environment and on human health However *The Impact of Genetically Engineered Crops on Farm Sustainability in the United States* is the first comprehensive assessment of the environmental economic and social impacts of the GE crop revolution on U S farms It addresses how GE crops have affected U S farmers both adopters and nonadopters of the technology their incomes agronomic practices production decisions environmental resources and personal well being The book offers several new findings and four recommendations that could be useful to farmers industry science organizations policy makers and others in government agencies [Adoption of Genetically Engineered Crops in the U.S.](#), 2001* [Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations for 2004: Research, education, and economics programs](#) United States. Congress. House. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies, 2003 **108-1 Hearings: Agriculture, Rural Development, Food and Drug**

Administration, Etc., Part 6, 2004, * ,2003 **First Decade of Genetically Engineered Crops in the United States**

Jorge Fernandez-Cornejo,2009-05 Ten years after the first generation of genetically engineered GE varieties became commercially available adoption of these varieties by U S farmers is widespread for major crops Despite the benefits however environmental and consumer concerns may have limited acceptance of GE crops especially in Europe This report focuses on GE crops and their adoption in the U S over the past 10 years It finds that 1 the pace of R 2 farmers have adopted some GE varieties widely and at a rapid rate and benefited from such adoption and 3 the level of consumer concerns about foods that contain GE ingred varies by country with European consumers being most concerned Illustrations **Genetically Modified**

Rice Adoption Kym Anderson,2004 Abstract The first generation of genetically modified GM crop varieties sought to increase producer profitability through cost reductions or higher yields while the next generation of GM food research is focusing on breeding for attributes of interest to consumers Golden rice has been genetically engineered to contain a higher level of vitamin A and thereby boost the health of poor people in developing countries Anderson Jackson and Nielsen analyze the potential economic effects of adopting both types of innovation in Asia including its impact on rice producers and other consumers They do so using the global economywide computable general equilibrium model known as GTAP The results suggest that farm productivity gains could be dwarfed by the welfare gains resulting from the potential health enhancing attributes of golden rice which would boost the productivity of unskilled workers among Asia s poor This paper a product of the Trade Team Development Research Group is part of a larger effort in the group to understand the global economic effects of agricultural biotechnology policies World Bank web site **Shedding Light on Genetically Engineered Food**

Beth H. Harrison,2007-11 When genetically engineered food was introduced in America more than a decade ago it was promoted as a solution to some of the world s food problems however the promised advantages have never been realized In this volume the author explores why these crops do not benefit consumers do not feed the world do not help the environment and are not rigorously regulated **Handbook on Agriculture, Biotechnology and Development** Stuart J. Smyth,Peter W.B. Phillips,David Castle,2014-03-28 This book is a compendium of knowledge experience and insight on agriculture

biotechnology and development Beginning with an account of GM crop adoptions and attitudes towards them the book assesses numerous crucial processes concluding with detai *Policy Issues in Genetically Modified Crops* Pardeep Singh,Anwasha Borthakur,Aditya Abha Singh,Ajay Kumar,Kshitij K. Singh,2020-11-20 Policy Issues in Genetically Modified Crops A Global Perspective contains both theoretical and empirical evidence of a broad range of aspects of GM crop policies throughout the world Emphasizing world agriculture production and ethics of GM crops the book balances insights into the various discussions around the use of GM crops including soil health effects on animals environmental sustainability impact and ethical issues The book presents aspects of GM crop policies and prevailing controversies throughout the world in 5 sections containing 23 chapters Beginning with the discussion of the policies related to GM crops the book dives deep into

issues related to food insecurity agricultural sustainability food safety and environmental risks Section 5 also captures the recent advances in agricultural biotechnology encompassing research trends the nano biotech approach to plant genetic engineering and other transformation techniques in crop development The contributors of the book represent different backgrounds providing a holistic overview of diverse approaches and perspectives Policy Issues in Genetically Modified Crops A Global Perspective is a valuable resource for researchers in agricultural policy and economics agricultural biotechnology soil science genetic engineering ethics environmental management sustainable development and NGOs Discusses ethics varieties research trends success and challenges of genetic modification Addresses both crop production and potential health impacts Includes extensive theoretical research and studies

Farmers' Adoption of Genetically Modified Varieties with Input Traits Corinne Alexander,2004

Bioengineering Audric Garcia,Ciel Durand,2010 This book summarises recent progress of newly developed bioengineering technology such as low energy ion beam bioengineering IBBE Low energy IBBE has demonstrated powerful impacts and highly potential applications on biology agriculture horticulture and life science Over the years many shell finite elements have been developed for applications in aerospace automotive and shipbuilding industries A review of the development and application of triangular shell finite elements is also included in this book In addition the challenge of bioengineering glass ceramics and ceramics for the fabrication of dental restorations is to fulfil the needs of patients The authors report on methods for developing materials that show a combination of different properties New methods to measure some essential properties of tissue engineered cartilage are examined as well as the types of gene assembly in terms of metabolic engineering and the principle of and actual protocol for the Ordered Gene Assembly in *B subtilis* OGAB Furthermore the use of human embryos and fetuses for the advancement of fundamental science and for the production of life saving vaccines has had a significant historical importance Cellular therapy using embryonic and fetal tissue has become a very prominent subject in the 21st century in the search of new treatments This book clarifies some definitions of newly used terms for embryonic and foetal cells describes world wide policy on voluntary interruption of pregnancy and elaborates on the history for legal use for both embryonic and foetal issues Some bioengineering approaches for the treatment of severe pressure ulcers PU are examined in this book as well

Biomass Crop Assistance Program ,2010

Proceedings of the New Zealand Grassland Association New Zealand Grassland Association,2002

International Environmental Law for the 21st Century Ved P. Nanda,George Pring,George William Pring,2003 Emphasizing the environmental social and human damage caused by non sustainable development this book provides readers with an incisive and integrated approach to the political economic scientific and technological realities and challenges facing international environmental law and policy today In addition to an in depth survey of the past present and future of this important and rapidly expanding field this new book offers innovative chapters on such crucial current imperatives as the nature and scope of the challenge first principles of international environmental law environment and

human rights environment and the nexus of international trade finance and debt and the unfinished agenda Journal of Agricultural and Resource Economics ,2007 *Agricultural Finance Review* ,2011 **Milling & Baking News** ,2010-03
Modern Biotechnology and Agricultural Markets Linda Fulponi,2000

Decoding **Adoption Of Bioengineered Crops**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Adoption Of Bioengineered Crops**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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