

# The Economic and Environmental Impacts of Agbiotech

A Global  
Perspective

Edited by  
Nicholas G. Kalaitzandonakes



# Economic And Environmental Impacts Of Agbiotech A Global Perspective

**CL Gary**



## **Economic And Environmental Impacts Of Agbiotech A Global Perspective:**

The Economic and Environmental Impacts of Agbiotech Nicholas Kalaitzandonakes, 2012-12-06 After almost fifteen years in the laboratory and in the test plots bioengineered crops arrived to the market in the mid 1990s Adoption was rapid and wide spread In 1996 less than 4 million acres in six countries were planted with bioengineered crops By 2001 worldwide adoption had expanded to more than 115 million acres Important questions quickly followed What were the factors driving the widespread adoption and rapid diffusion of these first generation agrobiotech nologies What were their economic and environmental impacts How were such impacts distributed among large and small producers innovators and adopters developed and developing countries exporters and importers domestic and foreign consumers How were such impacts and their distribu tion affected by market structure and government policies A growing body of literature has provided valuable answers to some of these questions However an assessment that accounts for the full range of differences in geography weather pests farm structures and institutions had not been completed It brings together leading This book provides just such an assessment authors from around the world who have analyzed the production environ mental and economic impacts of first generation crop biotechnologies By pooling experiences across various countries time periods crops and traits this global panel is able to synthesize a complete picture of the impacts of first generation crop biotechnologies *The Economic and Environmental Impacts of Agbiotech* Nicholas Kalaitzandonakes, 2003-02-28 The foretelling of a scientific revolution has persistently raised expectations on the potential of agrobiotechnology and first generation agrobiotechnologies have had to confront such expectations in the field and in the market The Economics and Environmental Impacts of Agbiotech A Global Perspective explains how well they have fared It brings together leading authors from around the world who have analyzed the production environmental and economic impacts of first generation agrobiotechnologies By pooling experiences across various countries time periods crops and traits this global panel synthesizes a complete picture of the impacts of first generation agrobiotechnologies The Economics and Environmental Impacts of Agbiotech A Global Perspective offers this assessment accounting for the full range of differences in geography weather pests farm structures and institutions that had not been completed previously and answers these important questions What were the factors driving the widespread adoption of these first generation agrobiotechnologies What were their economic and environmental impacts How were such impacts distributed among innovators and adopters developed and developing countries exporters and importers domestic and foreign consumers How were such impacts and their distribution affected by market structures and government policies

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

Genetics and Genomics of Soybean Gary Stacey, 2008-05-07 Soybean genomics is of great interest as one of the

most economically important crops and a major food source This book covers recent advances in soybean genome research including classical RFLP SSR and SNP markers genomic and cDNA libraries functional genomics platforms genetic and physical maps and gene expression profiles The book is for researchers and students in plant genetics and genomics plant biology and pathology agronomy and food sciences **Are Superweeds an Outgrowth of USDA Biotech Policy?** United States. Congress. House. Committee on Oversight and Government Reform. Subcommittee on Domestic Policy,2011

*Canadian Science, Technology, and Innovation Policy* G. Bruce Doern,David Castle,Peter W.B. Phillips,2016-06-01 Canadian Science Technology and Innovation Policy presents new critical analysis about related developments in the field such as significantly changed concepts of peer review merit review the emergence of big data in the digital age and the rise of an economy and society dominated by the internet and information The authors scrutinize the different ways in which federal and provincial policies have impacted both levels of government including how such policies impact on Canada's natural resources They also study key government departments and agencies involved with science technology and innovation to show how these organizations function increasingly in networks and partnerships as Canada seeks to keep up and lead in a highly competitive global system The book also looks at numerous realms of technology across Canada in universities business and government and various efforts to analyze biotechnology genomics and the Internet as well as earlier technologies such as nuclear reactors and satellite technology The authors assess whether a science and technology centred innovation economy and society has been established in Canada one that achieves a balance between commercial and social objectives including the delivery of public goods and supporting values related to redistribution fairness and community and citizen empowerment Probing the nature of science advice across prime ministerial eras including recent concerns over the Harper government's claimed muzzling of scientists in an age of attack politics Canadian Science Technology and Innovation Policy provides essential information for academics and practitioners in business and government in this crucial and complex field **Seeds, Science, and Struggle** Abby Kinchy,2012-07-20 An examination of how advocates for alternative agriculture confront science based regulation of genetically engineered crops Genetic engineering has a wide range of cultural economic and ethical implications yet it has become almost an article of faith that regulatory decisions about biotechnology be based only on evidence of specific quantifiable risks to consider anything else is said to politicize regulation In this study of social protest against genetically engineered food Abby Kinchy turns the conventional argument on its head Rather than consider politicization of the regulatory system she takes a close look at the scientization of public debate about the contamination of crops resulting from pollen drift and seed mixing Advocates of alternative agriculture confront the scientization of this debate by calling on international experts carrying out their own research questioning regulatory science in court building alternative markets and demanding that their governments consider the social and economic impacts of the new technologies Kinchy focuses on social conflicts over canola in Canada and maize in

Mexico drawing out their linkages to the global food system and international environmental governance The book ultimately demonstrates the shortcomings of dominant models of scientific risk governance which marginalize alternative visions of rural livelihoods and sustainable food production

**Handbook of Agricultural Economics** Robert E. Evenson, Prabhu Pingali, 2007-06-28 Volume 3 of this series of the Handbooks in Economics follows on from the previous two volumes by focusing on the fundamental concepts of agricultural economics The first part of the volume examines the developments in human resources and technology mastery The second part follows on by considering the processes and impact of invention and innovation in this field The effects of market forces are examined in the third part and the volume concludes by analysing the economics of our changing natural resources including the past effects of climate change Overall this volume forms a comprehensive and accessible survey of the field of agricultural economics and is recommended reading for anyone with an interest either academic or professional in this area Part of the renown Handbooks in Economics series Contributors are leaders of their areas International in scope and comprehensive in coverage

**Integration of Insect-Resistant Genetically Modified Crops within IPM Programs** Jörg Romeis, Anthony M. Shelton, George Kennedy, 2008-07-01 Insect pests remain one of the main constraints to food and fiber production worldwide despite farmers deploying a range of techniques to protect their crops Modern pest control is guided by the principles of integrated pest management IPM with pest resistant germplasm being an important part of the foundation Since 1996 when the first genetically modified GM insect resistant maize variety was commercialized in the USA the area planted to insect resistant GM varieties has grown dramatically representing the fastest adoption rate of any agricultural technology in human history The goal of our book is to provide an overview on the role insect resistant GM plants play in different crop systems worldwide We hope that the book will contribute to a more rational debate about the role GM crops can play in IPM for food and fiber production

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

*Regulating Agricultural Biotechnology* Richard E. Just, Julian M. Alston, David Zilberman, 2006-12-26 This book presents the first thorough economic analysis of current agricultural biotechnology regulation The contributors most of whom are agricultural economists working either in universities or NGOs address issues such as commercial pesticides the costs of approving new products liability benefits consumer acceptance regulation and its impacts transgenic crops social welfare implications and biosafety

**Sustainable Biotechnology Adoption in Nigeria to Reduce Food Insecurity** Uche M. Nwankwo, 2010 To make innovations work commercially among the target group requires institutional approach that can anticipate and predict users urgent needs through participation Conversely to make innovations work technically requires a pile of junk and good imagination according to Thomas Edison Biotechnology no doubt is a significant innovation that can enable farmers in developing countries increase productivity and manage their products Nevertheless biotech application is surrounded with many controversial debates These controversies have affected its perception among farmers and consumers alike Using a mixed method approach empirical data were gathered from farmers and extension agents in six geopolitical divisions of Nigeria to determine factors capable of ensuring sustainable biotech adoption Results revealed that the probability of biotech adoption is dependent on a cause and effect relationship

**Pests of Field Crops and Pastures** Peter T. Bailey, 2007 Here for the first time is a comprehensive handbook on economic entomology for field crops and pastures It is organised by commodities such as cereals sugar and tropical pasture legumes allowing all the arthropods on a particular commodity to be examined

**Socio-Economic Considerations in Biotechnology Regulation** Karinne Ludlow, Stuart J. Smyth, José Falck-Zepeda, 2013-12-03 Within the context of the Convention on Biological Diversity CBD the Cartagena Protocol on Biosafety CPB was established as an implementing agreement The CPB is an international agreement establishing the rights of recipient countries to be notified of and to approve or reject the domestic import and or production of living modified organisms LMOs Decisions regarding import production are to be on the basis of a biosafety assessment Article 26 1 of the CPB allows for the optional inclusion of socio economic considerations SECs into that biosafety assessment process This book compiles expert assessments of the issues relevant to SEC assessment of LMOs and fundamental for decisions regarding whether to undertake such assessments at all It includes an overview of the inclusion of SEC assessment in the regulation of LMOs that looks at the rationale for the inclusion of SECs in the context of the existing science based risk assessment systems This book reviews the various factors that can and have been suggested for inclusion in SEC assessment and provides a meaningful dialogue about the contrasts benefits and tradeoffs that are and will be created by the potential

move to the inclusion of SECs in the regulation of LMOs making it of interest to both academics and policy makers

Measuring the Economic Impacts of Transgenic Crops in Developing Agriculture During the First Decade Smale, Melinda, Zambrano, Patricia, Gruère, Guillaume, Falck-Zepeda, José, Matuschke, Ira, Horna, Daniela, Nagarajan, Latha, Yerramareddy, Indira, Jones, Hannah, 2009 As progressively more farmers in developing countries begin using biotech crops careful evaluation of such crops benefits becomes ever more important This food policy review examines the applied economics literature regarding the impact of biotech crops on non industrialized agriculture and investigates the research methods used in assessing how these crops affect farmers consumers the agricultural sector as a whole and international trade This analysis offers a tool for researchers who seek to produce objective relevant analysis of emerging crop biotechnologies that can in turn be used by national policymakers in developing countries **The Role of Biotechnology**

**in a Sustainable Food Supply** Jennie Popp, 2012-01-31 This is a multidisciplinary volume on the use of agricultural biotechnology to provide a sustainable food supply **Integrated Pest Management** Rajinder Peshin, Ashok K. Dhawan, 2009-03-10 Integrated Pest Management Dissemination and Impact Volume 2 is a sequel to Integrated Pest Management Innovation Development Process Volume 1 The book focuses on the IPM systems in the developed countries of North America Europe and Australia and the developing countries of Asia Latin America and Africa One of the major impediments in the dissemination and adoption of the IPM innovation is the complexity of the technology and reaching the vast population of farmers especially in the developing countries The IPM innovation development process is incomplete without the diffusion and adoption of IPM methods by the end users and through its consequences In spite of all the efforts in the developed and developing countries the adoption of IPM is still low with few exceptions The book covers the underlying concepts and methodologies of the diffusion of innovation theory and the program evaluation and reviews the progress and impact of IPM programs implemented in the industrialized the green revolution and the subsistence agricultural systems of the world Forty four experts from entomology plant pathology environmental science agronomy anthropology economics and extension education from Africa Asia Australia Europe North America and South America have discussed impact of IPM with an interdisciplinary perspective Each one of the experts is an authority in his or her field of expertise The researchers farmers education supporting policies of the governments and market forces are the elements of the IPM innovation system to achieve wider adoption of IPM strategy in agriculture **Transgenics and the Poor** Ronald J. Herring, 2013-09-13 Genetic engineering is changing the terrain of development studies Technologies with unprecedented potential the capacity to move genes across species have created widely politicized phenomena Frankenfoods GMOs and The Terminator En masse the public has reacted with equanimity or appreciation to genetically engineered pharmaceuticals beginning with insulin but transgenics in food and agriculture have raised a globally contentious politics This book begins with the needs of the poor for income nutrition environmental integrity and evaluates the theory and evidence for contributions from transgenic crops

Social scientists with expertise in regional studies economics sociology agriculture and political science join biologists to bring specialized knowledge on genuinely new questions created by the genomics revolution questions of ecological integrity biodiversity international trade the costs and effectiveness of biosafety protocols The authors collectively conclude that predictions of disaster for the poor from transgenic technology are uninformed by empirical results rest on misunderstandings of biotechnology or the poor or both or get the science wrong Yet the triumphalism of pro transgenic forces however must be tempered by serious unanswered questions much is unknown but the transgenic genie is out of the bottle In this much needed book an emergent empirical literature allows scholars in disciplines ranging from micro biology to economics and political science to assess the potential effects of transgenic organisms on poverty through multiple dynamics of property yields prices biodiversity environmental integrity and nutrition

**Plant Biotechnology in Ornamental Horticulture** Yi Li,Yan Pei,2007-02-28 Find out how biotechnology can produce more nutritious fruits and vegetables more colorful flowers and grass that needs less waterand mowing Plant Biotechnology in Ornamental Horticulture presents an in depth overview of the key scientific and technical advances issues and challenges in one of the fastest growing segments of

**Regulation of Agricultural Biotechnology: The United States and Canada** Chris A. Wozniak,Alan McHughen,2012-08-29 Written in a practical didactic format designed to deliver point of care information to practitioners of cardiology as well as assist non cardiologists with the efficient management of cardiac disease this highly illustrated manual is an essential reference



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