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Critical Issue Report: The First Thirteen Years



Impacts of Genetically Engineered Crops on Pesticide Use in the United States: The First Thirteen Years

by Charles Benbrook

November 2009

Genetically Engineered Crops In The United States

Victor M. Corman



Genetically Engineered Crops In The United States:

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 Engineered Crops* National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Genetically Engineered Crops: Past Experience and Future Prospects, 2017-01-28 Genetically engineered GE crops were first introduced commercially in the 1990s After two decades of production some groups and individuals remain critical of the technology based on their concerns about possible adverse effects on human health the environment and ethical considerations At the same time others are concerned that the technology is not reaching its potential to improve human health and the environment because of stringent regulations and reduced public funding to develop products offering more benefits to society While the debate about these and other questions related to the genetic engineering techniques of the first 20 years goes on emerging genetic engineering technologies are adding new complexities to the conversation Genetically Engineered Crops builds on previous related Academies reports published between 1987 and 2010 by undertaking a retrospective examination of the purported positive and adverse effects of GE crops and to anticipate what emerging genetic engineering technologies hold for the future This report indicates where there are uncertainties about the economic agronomic health safety or other impacts of GE crops and food and makes recommendations to fill gaps in safety assessments increase regulatory clarity and improve innovations in and access to GE technology Genetically Engineered Crops in the United States United States Department of Agriculture, 2015-07-13 More than 15 years after their first successful commercial introduction in the United States genetically engineered GE seeds have been widely adopted by U S corn soybean and cotton farmers Still some questions persist regarding the potential benefits and risks of GE crops The report finds that although the pace of research and development measured by the number of USDA approved field tests peaked in 2002 other measures show that biotech firms continue to develop new GE seed varieties at a rapid pace Also U S farmers continue to adopt GE seeds at a robust rate and seed varieties with multiple stacked traits have increased at a very rapid rate Insecticide use has decreased with the adoption of insect resistant crops and herbicide tolerant crops have enabled the substitution of glyphosate for more toxic and persistent herbicides However over reliance on glyphosate and a reduction in the diversity of weed management practices have contributed to the evolution of glyphosate resistance in some weed species *Genetically*

Engineered Crops in the United States Jorge Fernandez-Cornejo, 2014 **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 **Genetically Engineered Crops in the United States** United States Department of Agriculture, 2014-12-06 More than 15 years after their first successful commercial introduction in the United States genetically engineered GE seeds have been widely adopted by U S corn soybean and cotton farmers Still some questions persist regarding the potential benefits and risks of GE crops The report finds that although the pace of research and development measured by the number of USDA approved field tests peaked in 2002 other measures show that biotech firms continue to develop new GE seed varieties at a rapid pace Also U S farmers continue to adopt GE seeds at a robust rate and seed varieties with multiple stacked traits have increased at a very rapid rate Insecticide use has decreased with the adoption of insect resistant crops and herbicide tolerant crops have enabled the substitution of glyphosate for more toxic and persistent herbicides However overreliance on glyphosate and a reduction in the diversity of weed management practices have contributed to the evolution of glyphosate resistance in some weed species

Genetically Engineered Crops Iain Taylor, 2007-03-08 Take a closer look at the questions surrounding the long term impact of GE crops **Genetically Engineered Crops** examines current controversies surrounding the potential health environmental and social impacts of plants produced using molecular biology techniques Educators professionals and practitioners representing a wide range of disciplines **Transgenic Horticultural Crops** Beiquan Mou, Ralph Scorza, 2011-06-15 As the world debates the risks and benefits of plant biotechnology the proportion of the global area of transgenic field crops

has increased every year and the safety and value continues to be demonstrated Yet despite the success of transgenic field crops the commercialization of transgenic horticultural crops vegetables fruits nuts and or **Genetically Modified Crops** Keith T. Atherton,2002-09-12 Biotechnology has a significant impact on both medicine and agriculture With the introduction of new products to the marketplace the safety of those products is of paramount importance New safety evaluation strategies are now employed to ensure that the consumer is adequately protected This book describes those strategies and addresses some of **Federal Register** ,2008-04 *The First Decade of Genetically Engineered Crops in the United States* Jorge Fernandez-Cornejo,Margriet F. Caswell,2013 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 Driven by farmers expectations of higher yields savings in management time and lower pesticide costs the adoption of corn soybean and cotton GE varieties has increased rapidly Despite the benefits however environmental and consumer concerns may have limited acceptance of GE crops particularly in Europe This report focuses on GE crops and their adoption in the United States over the past 10 years It examines the three major stakeholders of agricultural biotechnology and finds that 1 the pace of R D activity by producers of GE seed the seed firms and technology providers has been rapid 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 ingredients varies by country with European consumers being most concerned **The Ecological Risks of Engineered Crops** Jane Rissler,Margaret G. Mellon,1996 The authors argue that the commercialization and release of transgenic crops on millions of acres of farmland can pose serious and costly consequences They propose a practical feasible method of conducting precommercialization evaluations that will balance the needs of ecological safety with those of agriculture and business From publisher description **Are Superweeds an Outgrowth of USDA Biotech Policy?** United States. Congress. House. Committee on Oversight and Government Reform. Subcommittee on Domestic Policy,2011

European Union-U.S. Trade Conflicts and Economic Relationship Jeremy V. Lane,2002 The United States and the European Union have a healthy and substantial trade relationship but as trade grows between the nations conflicts over subsidies industrial policy and social and economic pressures are inevitable Domestic or abroad these conflicts must be solved to ensure the best trade relations possible This book presents these trade problems and how they affect this mutually beneficial trade relationship **Progress in Economics Research** Albert Tavidze,2002 This series spans the globe presenting leading research in economics It is perhaps a sign of the times that economic weapons such as sanctions seem to be as powerful as or more so than tanks International applications and examples of economic progress are invaluable in a troubled world with economic booms bursting like so many penny balloons Contents Preface High Inflation Episodes in Transition Economies An Empirical Analysis Testing for Model Mis Specification and Bubbles under the Chinese Hyperinflation The Duality of Market Structures Inflation and Unemployment What s the Connection The Idea of Economic

Freedom Stimulating Clean Technology Paternalistic Altruism Life Cycle Hypothesis and the Ricardian Equivalence The Effect of Volatility in the Federal Funds Rate on Commercial Bank Borrowing at the Discount Window Vietnam's Transition to a Market Economy Maquiladoras and NAFTA The Economics of US Mexico Production Sharing and Trade Trade Conflict and the US European Union Economic Relationship Index Genetically Modified Organisms in Agriculture Gerald C.

Nelson, 2001-03-22 Genetically modified crops have become a topic of great interest among scientists regulators consumers farmers and politicians Despite their potential benefits public hostility toward these crops is causing dramatic changes to import export policies food safety regulations and agricultural practices around the world Genetically Modified Organisms in Agriculture provides a comprehensive overview of the subject and a balanced look at the costs and benefits of GMO products Part I reviews the scientific economic and political issues relating to the use of agricultural GMOs Chapters cover specific applications regulatory concerns import export patterns international trade issues and a discussion of future trends Part II offers a unique look at all sides of the GMO controversies with short chapters contributed by leading individuals with widely different perspectives Part III presents a more in depth look at selected issues plus helpful reference materials This book makes the latest information on GMOs accessible to all interested parties including students laypeople scientists activists and professionals working in related fields Additional detailed footnotes and references for the academic International contributions from the US Europe and India Covers the perspectives of different groups involved in the controversies governments environmental agencies consumers industrial agencies and the developing world

Environmental Safety of Genetically Engineered Crops Rebecca Grumet, 2011 Since the mid 1990s when the technology was first introduced the cultivation of genetically engineered GE crops has grown exponentially In the U S alone adoption rates for transgenic cotton corn and soybeans are between 70 90% Across the globe 14 million farmers grow GE crops in more than twenty countries Yet many countries are discussing and debating the use and adoption of GE technology because of concerns about their impact on the environment and human health Now in this comprehensive handbook a team of international experts present the scientific basis for GE crops placing them in the context of current agricultural systems and examining the potential environmental risks posed by their deployment An integrated approach to an increasingly hot and globally debated topic the book considers the past present and future of GE crops and offers an invaluable perspective for regulation and policy development

Creating a Transatlantic Marketplace Michelle P. Egan, 2005-07-22 Looking at the current state of the EU US trade relationship this text studies attempts at economic integration and cooperation arguing that it can provide information about the evolution of new policies and practices to manage the transatlantic economy

Global Handbook on Food and Water Safety Sonia Yuson De Leon, Susan L. Meacham, Virginia Serrano Claudio, 2003 A selection of fifty cases are presented that provide important learning tools for problem solving and evaluating foodborne illnesses Water safety is explained in great detail whether it is used for drinking and cooking or in recreational water facilities

Environmental

Pest Management Moshe Coll, Eric Wajnberg, 2017-07-25 A wide ranging interdisciplinary exploration of key topics that interrelate pest management public health and the environment This book takes a unique multidimensional approach to addressing the complex issues surrounding pest management activities and their impacts on the environment and human health and environmental effects on plant protection practices It features contributions by a distinguished group of authors from ten countries representing an array of disciplines They include plant protection scientists and officers economists agronomists ecologists environmental and public health scientists and government policymakers Over the course of eighteen chapters those experts share their insights into and analyses of an array of issues of vital concern to everyone with a professional interest in this important subject The adverse effects of pest control have become a subject of great concern worldwide and researchers and enlightened policymakers have at last begun to appreciate the impact of environmental factors on our ability to manage pest populations Moreover while issues such as pesticide toxicity have dominated the global conversation about pest management economic and societal considerations have been largely neglected Environmental Pest Management Challenges for Agronomists Ecologists Economists and Policymakers is the first work to provide in depth coverage of all of these pressing issues between the covers of one book Offers a unique multi dimensional perspective on the complex issues surrounding pest management activities and their effect on the environment and human health Addresses growing concerns about specific pest management strategies including the use of transgenic crops and biological controls Analyses the influence of global processes such as climate change biological invasions and shifts in consumer demand and ecosystem services and disservices on pest suppression efforts Explores public health concerns regarding biodiversity pesticide use and food safety Identifies key economic drivers of pest suppression research strategies and technologies Proposes new regulatory approaches to create sustainable and viable crop protection systems in the framework of agro environmental schemes Offering a timely and comprehensively unique treatment of pest management and its environmental impacts in a single inter disciplinary volume this book is a valuable resource for scientists in an array of disciplines as well as government officials and policymakers Also teachers of undergraduate and graduate level courses in a variety of fields are sure to find it a highly useful teaching resource

Whispering the Techniques of Language: An Psychological Quest through **Genetically Engineered Crops In The United States**

In a digitally-driven earth where displays reign great and immediate conversation drowns out the subtleties of language, the profound secrets and emotional nuances hidden within phrases frequently move unheard. Yet, situated within the pages of **Genetically Engineered Crops In The United States** a fascinating fictional value pulsating with organic thoughts, lies an extraordinary quest waiting to be undertaken. Composed by an experienced wordsmith, that charming opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the fabric of every word. Within the mental depths of the emotional evaluation, we shall embark upon a honest exploration of the book is core subjects, dissect their charming publishing design, and fail to the strong resonance it evokes serious within the recesses of readers hearts.

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