

Regulation Of Agricultural Biotechnology The United States And Canada

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Regulation of Agricultural Biotechnology -
Springer 2012-10-07

Engångslastpallar - 1964

Against the Grain: Biotechnology

Regulation and the Politics of Expertise in Post-War Guatemala - James Matthew Klepek 2011

Since the 1990s, genetically modified (GM) agriculture has become a multi-billion dollar industry. Despite the rapid commercialization of GM crops in the United States, global controversy has slowed the adoption of the technology in developing countries. Yet, few studies have examined regulatory disputes outside of the United States and Europe.

Debates in the United States and Europe focus on issues of human health and consumer choice. In other parts of the world, particularly Latin America, disputes center on the threats that GM agriculture poses to unique centers of biodiversity and food security, as well as issues related to bio-fuel expansion and the control over genetic resources and knowledge. My dissertation takes research on biotechnology in a new direction by analyzing the political process through which regulatory knowledge related to

GM agriculture is negotiated, contested and reformulated. Guatemala is a key case to examine the politics of biotechnology regulation because despite strong US trade and transnational commercial interests, it is still illegal to grow biotech crops. The question becomes: what explains resistance to agricultural biotechnology? To address this issue, my dissertation focuses on three primary themes. First, I examine historical Mayan rural livelihood strategies within a context of political exclusion and state violence during the country's 36-year civil war. This history, in turn, informs a contemporary context characterized by the continued importance of subsistence-based corn production in the face of mounting rural inequality. Second, I contend that biotechnology regulatory debates in Guatemalan state institutions are integrally tied to a unique national context of corn biodiversity. I focus specifically on disputes between US-sponsored biotechnology regulations based on the

principles of free trade and a more cautionary United Nations biosafety program. Third, I argue that resistance to agricultural biotechnology is bringing together diverse Guatemalan Mayan organizations until recently divided by the violence of the civil war. These organizations are deploying sophisticated cultural, economic and environmental knowledges that are effectively challenging efforts to commercialize GM agriculture. On a broader level, this study asserts that resistance to agricultural biotechnology is emblematic of broader struggles over the definition of legitimate knowledge in neoliberal development.

Agricultural Biotechnology - United States. Congress. House. Committee on Agriculture. Subcommittee on Risk Management, Research, and Specialty Crops 1999

Examination of the Costs and Impacts of Mandatory Biotechnology Labeling Laws - United States. Congress. House. Committee on

Agriculture 2015

Testing of Genetically Modified Organisms in Foods - Farid E. Ahmed 2004

Review of Current and Proposed Agricultural Biotechnology Regulatory Authority and the Omnibus Biotechnology Act of 1990 - United States. Congress. House. Committee on Agriculture. Subcommittee on Department Operations, Research, and Foreign Agriculture 1991

Review of Artificial Barriers to U.S. Agricultural Trade and Foreign Food Assistance - United States. Congress. House. Committee on Agriculture 2003

Role of Biotechnology in Agriculture - B. N. Prasad 1992

In the context of South Asian Association for Regional Cooperation countries.

Genetically Engineered Crops - National Academies of Sciences, Engineering, and Medicine 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 - Jorge Fernandez-Cornejo 2014

GMO China - Cong Cao 2018

Cong Cao presents a comprehensive and systematic analysis of how China's policy toward research and commercialization of genetically modified crops has evolved that explains how China's changing GMO stances reflect its shifting position on the world stage.

International Trade - United States. General

Accounting Office 2001

Scientific Revolution Meets Policy and the Market - Thomas Bernauer 2014

This paper is now published as: Bernauer, Thomas, Meins, Erika. 2003. Technological Revolution Meets Policy and the Market: Explaining Cross-National Differences in Agricultural Biotechnology Regulation. European Journal of Political Research 42/5:643-683. Please read and cite the published version. The development and marketing of agricultural biotechnology applications has led to controversies over whether and how to regulate this new technology. In response, the European Union has imposed severe restrictions on agricultural biotechnology, particularly in terms of approval and labeling of genetically modified organisms (GMOs) in food. In stark contrast, the United States maintains a far more permissive approval policy and does not require labeling. This article explains these differences

in terms of the collective action capacity of consumer and producer interests, as well as the institutional environment in which regulation takes place. We find that the regulatory outcome in the EU can be traced back to NGOs' increased collective action capacity, an institutional environment favorable to NGO interests, and rifts in the producer coalition due to differences in industrial structure and consumer and NGO opposition. U.S. biotechnology politics is dominated by a strong and cohesive coalition of pro-biotech agricultural and up- and downstream producers. Low public concern and high trust in regulatory authorities have made mobilization of NGOs in the U.S. difficult and have resulted largely in their exclusion from the policy process.

Biotechnology Regulation and Trade - Stuart J. Smyth 2017-03-02

This book discusses the regulatory and trade challenges facing the global adoption of biotechnological products and offers strategies

for overcoming these obstacles and moving towards greater global food security. The first section of the book establishes the context of the conflict, discussing the challenges of global governance, international trade, and the history of regulation of genetically modified (GM) crops. In this section, the authors emphasize the shift from exclusively science-based regulation to the more socio-economically focused framework established by the Cartagena Protocol on Biosafety, which was adopted in 2000. The second section of the book provides a snapshot of the current state of international GM crop adoption and regulation, highlighting the US, Canada, and the EU. The final section of the book identifies options for breaking the gridlock of regulation and trade that presently exist. This book adds to the current literature by providing new information about innovative agricultural technologies and encouraging debate by providing an alternative to the narratives espoused by environmental non-governmental

organizations. This book will appeal to students of economics, political science, and policy analysis, as well as members of regulatory agencies and agricultural industry firms.

Regulation of Genome Editing in Plant Biotechnology - Hans-Georg Dederer

2019-08-16

This book provides in-depth insights into the regulatory frameworks of five countries and the EU concerning the regulation of genome edited plants. The country reports form the basis for a comparative analysis of the various national regulations governing genetically modified organisms (GMOs) in general and genome edited plants in particular, as well as the underlying regulatory approaches. The reports, which focus on the regulatory status quo of genome edited plants in Argentina, Australia, Canada, the EU, Japan and the USA, were written by distinguished experts following a uniform structure. On this basis, the legal frameworks are compared in order to foster a rational

assessment of which approaches could be drawn upon to adjust, or to completely realign, the current EU regime for GMOs. In addition, a separate chapter identifies potential best practices for the regulation of plants derived from genome editing.

Testing of Genetically Modified Organisms in Foods - Farid Ahmed 2004-04-07

Examine several methods of testing for genetically modified organisms and the reasons behind their strict regulation! Testing of Genetically Modified Organisms in Foods is the first study of the screening methods and tools utilized for determining the presence of genetically modified organisms (GMOs) in food products. Leading experts in science, medicine, and government agencies examine the significant research and clinical developments in bio-engineered agriculture to bring you an accurate risk assessment of GMOs in relation to human consumption, economics, and the environment. This book focuses on three high-

profile biotechnological commercial aspects of GMO inclusion in the world market: insect resistance, herbicide tolerance, and virus resistance. It also identifies new GM food crops that are in the laboratory and may soon be on your table. Testing of Genetically Modified Organisms in Foods looks at GMOs from the perspectives of both sides of the globe—the European Union and the United States Department of Agriculture—who each have their own set of rules and opinions regarding safety issues and marketing of bioengineered food products. This book looks at the government standards of scientific testing for GMOs, and several chapters specifically analyze current screening methods. This book also explores the impact of GMOs on farming, agricultural economy, pesticide control, and world famine. Testing of Genetically Modified Organisms in Foods brings you current information on: the risks and benefits of agricultural biotechnology—to people and the environment

the regulations and protocols of testing for GMOs that have been adopted by European and United States agencies scientific techniques that test for GMOs, including certified reference materials (CRMs) and matrix-based, protein-based, and DNA-based methods of testing the limitations of today's GMO screening methods and the benefits of alternatives that may be used in the future the long-term risks associated with gene flow of GMOs to other plants, specifically focusing on liabilities, regulatory climates, and intellectual property rights Testing of Genetically Modified Organisms in Foods is generously enhanced with figures, tables, and graphs as well as references at the end of every chapter. The commercialization of agricultural biotechnology makes this text essential for scientists, planners, and students of food, agriculture and environmental science. Government officials and activists will find this book invaluable in debating current issues of agricultural biotechnology and food safety.

Regulation of Agricultural Biotechnology: The United States and Canada - Chris A. Wozniak

2012-10-05

Agricultural biotechnology takes many forms and applications, with the number and diversity of products ever increasing. With this rapid development, regulatory authorities have sought to keep pace through regulatory adjustments and advances to ensure the safe and beneficial use of this critical technology. The regulatory systems for the U.S. and Canada are not static and must evolve in order to maintain relevance, efficiency and applicability to the challenges encountered. The diverse authors, drawn from the biotechnology industry, academia, government research and regulatory agencies, offer their perspectives of the historical and current system and suggest where it can be improved in the future. Based upon vast experience interacting with the regulatory system, the editors and authors offer demystifying views of the US and Canadian

regulatory structures and how they came to be. We know of no other effort to present the biotechnology regulatory systems of the US and Canada in an open forum which will benefit those in the regulated community as well as those charged with oversight of the products of biotechnology, and ultimately the consumer!

Genes, Trade, and Regulation - Thomas Bernauer 2003

This book provides novel and thought-provoking insights into the fundamental policy issues involved in agricultural biotechnology. Thomas Bernauer explains global regulatory polarization and trade conflict in this area. He then evaluates co-operative and unilateral policy tools for coping with trade tensions. Arguing that the tools used thus far have been and will continue to be ineffective, he concludes that the risk of a full-blown trade conflict is high and may lead to reduced investment and the decline of the technology. Bernauer concludes with suggestions for policy reforms to halt this

trajectory -recommendations that strike a balance between public-safety concerns and private economic freedom - so that food biotechnology is given a fair chance to prove its environmental, health, humanitarian and economic benefits.

Safety of Genetically Engineered Foods - National Research Council 2004-07-08
Assists policymakers in evaluating the appropriate scientific methods for detecting unintended changes in food and assessing the potential for adverse health effects from genetically modified products. In this book, the committee recommended that greater scrutiny should be given to foods containing new compounds or unusual amounts of naturally occurring substances, regardless of the method used to create them. The book offers a framework to guide federal agencies in selecting the route of safety assessment. It identifies and recommends several pre- and post-market approaches to guide the assessment of

unintended compositional changes that could result from genetically modified foods and research avenues to fill the knowledge gaps.

Women in Sustainable Agriculture and Food Biotechnology - Laura S. Privalle 2017-03-08

This volume describes the contributions made by women scientists to the field of agricultural biotechnology, the most quickly adopted agricultural practice ever adopted. It features the perspectives of women educators, researchers and key stakeholders towards the development, implementation and acceptance of this modern technology. It describes the multiplying contemporary challenges in the field, how women are overcoming technological barriers, and their thoughts on what the future may hold. As sustainable agricultural practices increasingly represent a key option in the drive towards building a greener global community, the scientific, technological and implementation issues covered in this book are vital information for anyone working in environmental

engineering.

When Cooperation Fails - Mark A. Pollack
2009-05-21

The transatlantic dispute over genetically modified organisms (GMOs) has brought into conflict the United States and the European Union, two long-time allies and economically interdependent democracies with a long record of successful cooperation. Yet the dispute - pitting a largely acceptant US against an EU deeply suspicious of GMOs - has developed into one of the most bitter and intractable transatlantic and global conflicts, resisting efforts at negotiated resolution and resulting in a bitterly contested legal battle before the World Trade Organization. Professors Pollack and Shaffer investigate the obstacles to reconciling regulatory differences among nations through international cooperation, using the lens of the GMO dispute. The book addresses the dynamic interactions of domestic law and politics, transnational networks, international regimes,

and global markets, through a theoretically grounded and empirically comprehensive analysis of the governance of GM foods and crops. They demonstrate that the deeply politicized, entrenched and path-dependent nature of the regulation of GMOs in the US and the EU has fundamentally shaped negotiations and decision-making at the international level, limiting the prospects for deliberation and providing incentives for both sides to engage in hard bargaining and to "shop" for favorable international forums. They then assess the impacts, and the limits, of international pressures on domestic US and European law, politics and business practice, which have remained strikingly resistant to change. International cooperation in areas like GMO regulation, the authors conclude, must overcome multiple obstacles, legal and political, domestic and international. Any effective response to this persistent dispute, they argue, must recognize both the obstacles to successful cooperation, and

the options that remain for each side when cooperation fails.

Science and Policy Issues - United States.
National Agricultural Research and Extension
Users Advisory Board 1984

Environmental Effects of Transgenic Plants

- National Research Council 2002-02-22

Transgenic crops offer the promise of increased agricultural productivity and better quality foods. But they also raise the specter of harmful environmental effects. In this new book, a panel of experts examines: • Similarities and differences between crops developed by conventional and transgenic methods • Potential for commercialized transgenic crops to change both agricultural and nonagricultural landscapes • How well the U.S. government is regulating transgenic crops to avoid any negative effects. *Environmental Effects of Transgenic Plants* provides a wealth of information about transgenic processes,

previous experience with the introduction of novel crops, principles of risk assessment and management, the science behind current regulatory schemes, issues in monitoring transgenic products already on the market, and more. The book discusses public involvement and public confidence in biotechnology regulation. And it looks to the future, exploring the potential of genetic engineering and the prospects for environmental effects.

Plant Genetic Engineering and Regulation in the United States - Alan McHughen 2006 Agricultural Biotechnology in California series. *Review of Current and Proposed Agricultural Biotechnology Regulatory Authority and the Omnibus Biotechnology Act of 1990* - United States. Congress. House. Committee on Agriculture. Subcommittee on Department Operations, Research, and Foreign Agriculture 1991

GMO Food: A Reference Handbook - David E. Newton 2014-10-07

Providing an exhaustive background on the history of genetically modified organism (GMO) crops and foods as well as the controversies surrounding these products, this book allows readers to develop their own particular viewpoint on the production and use of GMO substances. • Presents both historical and current views of the topic that provide readers with a neutral presentation of the hard science as well as the social issues in question • Includes perspective essays written by individuals with expertise in issues related to the production and distribution of GMO foods in the United States and other parts of the world • Assesses the long-existing differences in attitudes toward the development and commercialization of GMO foods and crops in the United States versus in the European Union • Addresses the ongoing debate regarding whether and how genetically modified products should be labeled for sale

Genetically Modified Pest-Protected Plants -

National Research Council 2000-08-23

This book explores the risks and benefits of crops that are genetically modified for pest resistance, the urgency of establishing an appropriate regulatory framework for these products, and the importance of public understanding of the issues. The committee critically reviews federal policies toward transgenic products, the 1986 coordinated framework among the key federal agencies in the field, and rules proposed by the Environmental Protection Agency for regulation of plant pesticides. This book provides detailed analyses of: Mechanisms and results of genetic engineering compared to conventional breeding for pest resistance. Review of scientific issues associated with transgenic pest-protected plants, such as allergenicity, impact on nontarget plants, evolution of the pest species, and other concerns. Overview of regulatory framework and its use of scientific information with suggestions

for improvements.

Ethical Tensions from New Technology -

Harvey S James Jr 2018-08-20

The introduction of new technologies can be controversial, especially when they create ethical tensions as well as winners and losers among stakeholders and interest groups. While ethical tensions resulting from the genetic modification of crops and plants and their supportive gene technologies have been apparent for decades, persistent challenges remain. This book explores the contemporary nature, type, extent and implications of ethical tensions resulting from agricultural biotechnology specifically and technology generally. There are four main arenas of ethical tensions: public opinion, policy and regulation, technology as solutions to problems, and older versus new technologies. Contributions focus on one or more of these arenas by identifying the ethical tensions technology creates and articulating emerging fault lines and, where

possible, viable solutions. Key features include focusing on contemporary challenges created by new and emerging technologies, especially agricultural biotechnology. Identifying a unique perspective by considering the problem of ethical tensions created or enhanced by new technologies. Providing an interdisciplinary perspective by including perspectives from sociologists, economists, philosophers and other social scientists. This book will be of interest to academics in agricultural economics, sociology and philosophy and policymakers concerned with introducing new technology into agriculture.

Global Challenges and Directions for Agricultural Biotechnology - National Research Council 2008-06-30

Many developing countries are exploring whether biotechnology has a role in addressing national issues such as food security and environmental remediation, and are considering whether the putative benefits of the technology-

for example, enabling greater agricultural productivity and stability in the food supply- outweigh concerns that the technology might pose a danger-to biodiversity, health, and local jobs. Some policy leaders worry that their governments are not prepared to take control of this evolving technology and that introducing it into society would be a risky act. Others have suggested that taking no action carries more risk, given the dire need to produce more food. This book reports on an international workshop held to address these issues. *Global Challenges and Directions for Agricultural Biotechnology: Mapping the Course*, organized by the National Research Council on October 24-25, 2004, in Washington, DC, focused on the potential applications of biotechnology and what developing countries might consider as they contemplate adopting biotechnology. Presenters at the workshop described applications of biotechnology that are already proving their utility in both developing and developed

countries.

Plant Biotechnology, Volume 2 - Sangita Sahni
2017-12-22

This volume is the second of the new two-volume Plant Biotechnology set. This volume covers many recent advances in the development of transgenic plants that have revolutionized our concepts of sustainable food production, cost-effective alternative energy strategies, microbial biofertilizers and biopesticides, and disease diagnostics through plant biotechnology. With the advancements in plant biotechnology, many of the customary approaches are out of date, and an understanding of new updated approaches is needed. This volume presents information related to recent methods of genetic transformation, gene silencing, development of transgenic crops, biosafety issues, microbial biotechnology, oxidative stress, and plant disease diagnostics and management. Key features: Provides an in-depth knowledge of various techniques of genetic transformation of

plants, chloroplast, and fungus Describes advances in gene silencing in plants Discusses transgenic plants for various traits and their application in crop improvement Looks at genetically modified foods and biodiesel production Describes biotechnological approaches in horticultural and ornamental plants Explores the biosafety aspect associated with transgenic crops Considers the role of microbes in sustainable agriculture

Governing the Transatlantic Conflict over Agricultural Biotechnology - Joseph Murphy
2007-01-24

Delays in approving genetically modified crops and foods in the European Union have led to a high profile trade conflict with the United States. This book analyses the EU-US conflict and uses it as a case study to explore the governance of new technologies. The transatlantic conflict over GM crops and food has been widely attributed to regulatory differences that divide the EU and the US. Going

beyond common stereotypes of these differences and their origins, this book analyses the conflict through contending coalitions of policy actors operating across the Atlantic. *Governing the Transatlantic Conflict over Agricultural Biotechnology* focuses on interactions between the EU and the US, rather than on EU-US comparisons. Drawing on original research and interviews with key policy actors, the book shows how EU-US efforts to harmonise regulations for agricultural biotechnology created the context in which activists could generate a backlash against the technology. In this new context regulations were shaped along different lines. Joseph Murphy and Les Levidow provide new insights by elaborating critical perspectives on global governance, issue-framing, standard-setting and regulatory science. This accessible book will appeal to undergraduate and post-graduate students, academics and policy-makers working on a wide range of issues covered by political science,

policy studies, international relations, economics, geography, business management, environmental and development studies, science and technology studies.

Genes, Trade, and Regulation - Thomas Bernauer 2016-06-28

Agricultural (or "green") biotechnology is a source of growing tensions in the global trading system, particularly between the United States and the European Union. Genetically modified food faces an uncertain future. The technology behind it might revolutionize food production around the world. Or it might follow the example of nuclear energy, which declined from a symbol of socioeconomic progress to become one of the most unpopular and uneconomical innovations in history. This book provides novel and thought-provoking insights into the fundamental policy issues involved in agricultural biotechnology. Thomas Bernauer explains global regulatory polarization and trade conflict in this area. He then evaluates cooperative and unilateral policy

tools for coping with trade tensions. Arguing that the tools used thus far have been and will continue to be ineffective, he concludes that the risk of a full-blown trade conflict is high and may lead to reduced investment and the decline of the technology. Bernauer concludes with suggestions for policy reforms to halt this trajectory--recommendations that strike a sensible balance between public-safety concerns and private economic freedom--so that food biotechnology is given a fair chance to prove its environmental, health, humanitarian, and economic benefits. This book will equip companies, farmers, regulators, NGOs, academics, students, and the interested public--including both advocates and critics of green biotechnology--with a deeper understanding of the political, economic, and societal factors shaping the future of one of the most revolutionary technologies of our times. Preparing for Future Products of Biotechnology - National Academies of Sciences, Engineering,

and Medicine 2017-07-28

Between 1973 and 2016, the ways to manipulate DNA to endow new characteristics in an organism (that is, biotechnology) have advanced, enabling the development of products that were not previously possible. What will the likely future products of biotechnology be over the next 5-10 years? What scientific capabilities, tools, and/or expertise may be needed by the regulatory agencies to ensure they make efficient and sound evaluations of the likely future products of biotechnology? Preparing for Future Products of Biotechnology analyzes the future landscape of biotechnology products and seeks to inform forthcoming policy making. This report identifies potential new risks and frameworks for risk assessment and areas in which the risks or lack of risks relating to the products of biotechnology are well understood. **Agricultural Biotechnology and Transatlantic Trade** - Grant Isaac 2002-02-21 Genetically modified (GM) agricultural crops

which are approved as safe in North America (Canada and the United States) are facing significant regulatory hurdles in gaining access to the European Union. The development and commercialization of GM crops illustrate a complex challenge facing trade diplomacy - the challenge of regulatory regionalism created by social regulatory barriers.

A Risk-Based Approach to the Regulation of Genetically Engineered Plants - Gregory Conko 2017

This article presents a regulatory model that would regulate agricultural biotechnology on the basis of the product created and, then, on a tiered risk-based analysis. The article presents this model because United States regulatory agencies are currently reviewing their agricultural biotechnology regulations. This article joins that review conversation by proposing a risk-based model as the appropriate regulatory approach.

Science, Technology, and Innovation for

Sustainable Development Goals - Ademola A. Adenle 2020-07-28

After the United Nations adopted the 17 Sustainable Development Goals (SDGs) to "end poverty, protect the planet, and ensure prosperity for all," researchers and policy makers highlighted the importance of targeted investment in science, technology, and innovation (STI) to make tangible progress. Science, Technology, and Innovation for Sustainable Development Goals showcases the roles that STI solutions can play in meeting on-the-ground socio-economic and environmental challenges among domestic and international organizations concerned with the SDGs in three overlapping areas: agriculture, health, and environment/energy. Authors and researchers from 31 countries tackle both big-picture questions, such as scaling up the adoption and diffusion of new sustainable technologies, and specific, localized case studies, focusing on developing and middle-income countries and

specific STI solutions and policies. Issues addressed include renewable energy, automated vehicles, vaccines, digital health, agricultural biotechnology, and precision agriculture. In bringing together diverse voices from both policy and academic spheres, this volume provides practical and relevant insights and advice to support policy makers and managers seeking to enhance the roles of STI in sustainable development.

Biotechnology: Legislation and Regulation -

Scott A. Leonard 1997-02

Bibliography of 323 citations in English.

Agricultural Biotechnology - National Research Council (U.S.). Committee on a National Strategy for Biotechnology in Agriculture 1987-01-01

Executive summary and recommendations. Scientific aspects. Funding and institutions.

Training. Technology transfer.

Economic Issues in Agricultural

Biotechnology - Robbin Shoemaker 2001

Addresses the fact that ag. biotech. (AB) has been advancing very rapidly, and while it presents many promises, it also poses many questions. Many dimensions to AB need to be considered to adequately inform public policy. Policy is made more difficult by the fact that AB encompasses many policy issues addressed in very different ways. The report identifies several key areas -- ag. research policy, industry structure, production and marketing, consumer issues, and future world food demand -- where AB is dramatically affecting the public policy agenda. Focuses on the economic aspects of these issues and addresses some current and timely issues as well as longer term issues. Charts and tables.