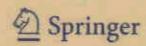
## Regulating Agricultural Biotechnology Economics and Policy

Richard E. Just Julian M. Alston David Zilberman



## **Contents**

IN	TRODUCTION		
1	Regulating Agricultural Biotechnology: Introduction and Overview:		
A	ART I GRICULTURAL BIOTECHNOLOGY IN THE CONTEXT F A REGULATED AGRICULTURAL SECTOR		
Section I.1 – Technological Regulation in U.S. Agriculture			
2	Economic Analysis and Regulating Pesticide		
3	Compliance Costs for Regulatory Approval of New Biotech Crops		
4	Regulation of Technology in the Context of U.S. Agricultural Policy59 Bruce Gardner		
5	Managing Liabilities Arising from Agricultural Biotechnology		
Se	ction I.2 – Benefits from Agricultural Biotechnologies		
6	Status of Agricultural Biotechnology: An International Perspective		
7	Interactions Between Trade Policies and GM Food Regulations		
Se	ction I.3 – Hidden Benefits of Agricultural Biotechnologies		
8	The Value of Non-Pecuniary Characteristics of Crop		
9	Bt Corn's Reduction of Mycotoxins:		

Sec	ction I.4 – Consumer and Market Acceptance of Agricultural Biotechnologies
10	Consumer Attitudes and Market Resistance to Biotech Products
11	Comparison of Consumer Responses to Genetically
CO	ART II ONCEPTUAL ISSUES IN REGULATING GRICULTURAL BIOTECHNOLOGY
Se	ction II.1 - The Causes of Regulations and Their Impacts
12	The Economics of Biotechnology Regulation243  David Zilberman
13	Labeling Regulations and Segregation of First- and Second
Se Bí	ction II.2 – Environmental Risks of Agricultural otechnologies and Regulatory Response
14	Regulation of Technology in the Context of Risk Generation
15	Environmental Effects of Genetically Modified Crops:
16	Irreversibility, Uncertainty, and the Adoption of
	ection II.3 – Imperfect Competition, Political Economy, and Regulation of Agricultural Biotechnologies
17	Anticompetitive Impacts of Laws That Regulate Commercial
18	Regulation, Trade, and Market Power:397 Agricultural Chemical Markets and Incentives for Biotechnology Vincent H. Smith

19	Regulation and the Structure of Biotechnology Industries
20	The Social Welfare Implications of Intellectual Property Protection:
CA	RT III ASE STUDIES ON THE ECONOMICS OF REGULATING GRICULTURAL BIOTECHNOLOGY
Se	ction III.1 – International Evidence
21	International Approval and Labeling Regulations of
22	Benefits and Costs of Biosafety Regulation in India and China
23	Biosafety Regulation of Genetically Modified Orphan Crops
Se	ction III.2 – Refuge Policy and Regulatory Compliance at the Farm Level
24	Bt Resistance Management: The Economics of Refuges
25	Managing European Corn Borer Resistance to
26	Farmer Demand for Corn Rootworm Bt Corn:
27	Adverse Selection, Moral Hazard, and Grower599 Compliance with Bt Corn Refuge Paul D. Mitchell and Terrance M. Hurley
28	Damage from Secondary Pests and the Need for Refuge in China625 Shenghui Wang, David R. Just, and Per Pinstrup-Andersen

39
17
53
33
) 1
23
1