1. Record Nr. UNINA9910711928703321

Autore	Flocks James G (James Gerald)
Titolo	Seismic profile analysis of sediment deposits in Brownlee and Hells Canyon Reservoirs near Cambridge, Idaho / / by James Flocks, Kyle Kelso, Ryan Fosness, and Chris Welcker
Pubbl/distr/stampa	Reston, Virginia : , : U.S. Department of the Interior, U.S. Geological Survey, , 2014
Descrizione fisica	1 online resource (v, 14 pages) : illustrations (some color), maps (some color)
Collana	Open-file report ; ; 2014-1019
Soggetti	Sedimentation and deposition - Hells Canyon Dam (Idaho and Or.) Sedimentation and deposition - Brownlee Reservoir (Idaho and Or.) Sedimentation and deposition Brownlee Dam (Idaho and Or.) Environmental aspects Hells Canyon Dam (Idaho and Or.) Environmental aspects Brownlee Reservoir (Idaho and Or.) Environmental aspects Idaho
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (page 14).

2. Record Nr. UNINA9910971822003321

Titolo	Regulating pesticides in food : the Delaney paradox / / Committee on Scientific and Regulatory Issues Underlying Pesticide Use Patterns and Agricultural Innovation, Board on Agriculture, National Research Council
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1987
ISBN	1-280-22158-5 9786610221585 0-309-55507-8 0-585-15000-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (288 pages)
Disciplina	347.3044232 344.73/04232
Soggetti	Pesticides - Government policy - United States Pesticides - Toxicology Pesticide residues in food
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Regulating Pesticides in Food -- Copyright -- Preface -- Acknowledgments -- Contents -- REGULATING PESTICIDES IN FOOD -- Executive Summary -- THE COMMITTEE'S ESTIMATES OF ONCOGENIC RISK -- ESTIMATED ONCOGENIC RISK AND ITS DISTRIBUTION IN THE FOOD SUPPLY -- Findings -- IMPACTS OF FOUR ALTERNATIVE WAYS TO REGULATE ONCOGENIC RESIDUES -- Results of the Scenarios -- Findings -- AN ANALYSIS OF THE FUNGICIDES: A SPECIAL CASE -- PESTICIDE INNOVATION AND ALTERNATIVE PEST-CONTROL METHODS -- Alternative Technologies -- The Effect of the Delaney Clause on R&amp -- D -- The Minor Use Issue -- The Delaney Clause and Pest Resistance -- MAJOR CONCLUSIONS AND RECOMMENDATIONS -- Legal Basis for Regulation -- A Nonzero Standard for Oncogenic Risk -- Targeting High-Risk Pesticide and Crop Uses -- The Adoption of an Analytical Framework -- 1 Introduction -- FIFRA AND THE FDC ACT -- THE DELANEY CLAUSE AND THE PURPOSE OF THIS REPORT -- THE COMMITTEE'S TASKS -- NOTES -- 2 The Current System: Theory and

Practice -- REGISTRATION OF PESTICIDES UNDER FIFRA -- TOLERANCE SETTING UNDER THE FDC ACT -- Section 408-The Statutory Standard -- Section 409 -- The Tolerance-Setting Process Under Sections 408 and 409 -- Overview of the Process -- Specific Data Requirements -- Oncogenicity and Carcinogenicity -- Tolerance Setting for Non-Oncogenic Pesticides Under Section 408 -- Tolerance Setting for Oncogenic Compounds Under Section 408 -- Tolerance Setting Under Section 409 -- THE DATA CALL-IN PROGRAM -- THE DELANEY CLAUSE-A CLOSER EXAMINATION -- SUMMARY OF PROBLEMS AND ISSUES POSED BY THE DELANEY CLAUSE -- Inconsistency -- The Issue of Concentration in Processed Foods -- Paradoxical Regulatory Results -- NOTES -- 3 Estimates of Dietary Oncogenic Risks -- INTRODUCTION -- Pesticide Use Patterns in the United States -- Pesticide Use Data -- Problems in Estimating Current Risk.
DESCRIPTION OF THE DATA BASE AND THE ANALYTICAL METHOD -- The Universe of Oncogenic Pesticides -- Estimating Dietary Exposure to Pesticide Residues -- Food Consumption Data -- Method for Estimating Residues in Food -- Method for Estimating Exposure to Residues -- Method for Estimating Residues in Processed Foods -- ESTIMATION OF ONCOGENIC RISK -- An Analysis of Estimated Oncogenic Risk -- Distribution of Risk By Tolerance Type: Section 408 Versus Section 409 -- Oncogenic Risk Derived from Residues in Animal Feeds -- Distribution of Estimated Risk by Type of Pesticide -- Distribution of Estimated Risk by Active Ingredient -- Distribution of Estimated Risk by Crop -- EPA'S INTERPRETATION OF THE DELANEY CLAUSE TO DATE -- EPA Application of the Delaney Clause to New Active Ingredients -- CASE STUDIES OF POTENTIAL POLICY PRECEDENTS -- Tolerances for New Active Ingredients -- Prior-Sanctioned Pesticides -- Tolerance Actions and New Active Ingredients -- Fosetyl Al -- Permethrin -- Thiodicarb -- Dicamba -- Tolerance Actions and Old Active Ingredients -- Dicofol and Chlorobenzilate -- Benomyl -- PROJECTING PAST ACTIONS INTO TILE FUTURE -- THE SHORT-TERM POTENTIAL IMPACT OF THE DELANEY CLAUSE -- NOTES -- 4 The Scenarios and the Results -- INTRODUCTION -- Selection of Pesticide-Crop Combinations -- ANALYTICAL METHODS -- Dietary Risk -- Pesticide Use -- DESCRIPTION OF THE SCENARIOS AND RESULTS -- Scenario 1 -- Results -- Crop-Level Analysis -- Scenario 2 -- Results -- Effects on Individual Active Ingredients -- Crop-Level Impacts -- Scenario 3 -- Results -- Impacts on Individual Active Ingredients -- Crop-Level Impacts -- Scenario 4 -- Results -- Crop-Level Impacts -- Summary -- NOTE -- 5 Comparing the Impact of the Scenarios -- THE IMPACTS OF THE SCENARIOS ON HERBICIDES, INSECTICIDES, AND FUNGICIDES.
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INNOVATION PROSPECTS IN PEST CONTROL -- Plant Breeding -- Genetic Engineering -- Biological Control -- Cultural Pest Control -- SPECIAL CHALLENGES TO INNOVATION -- The Minor-Use Issue -- Liability -- Interregional Project 4 -- The Pesticide Resistance Problem -- NOTES -- Appendixes -- A Legislative History of the Pesticide Residues Amendment of 1954 and the Delaney Clause of the Food Additives Amendment of… -- Statement of Problems -- Question Presented -- Conclusion -- Discussion of Authority -- The Delaney Committee Report -- The Pesticide Residues Amendments -- The Food Additives Amendment -- 1956 Hearings -- 1958 Hearings -- Addition of the Delaney Clause -- NOTES -- B Analytical Methodology for Estimating Oncogenic Risks of Human Exposure to Agricultural Chemicals In Food Crops -- Datamanagement System -- Data Base Construction -- Tape-to-Mainframe Transfer and Data Transformations -- Mainframe-to-Microcomputer Transfer.
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Sommario/riassunto

Concern about health effects from exposure to pesticides in foods is growing as scientists learn more about the toxic properties of pesticides. The Delaney Clause, a provision of the Food, Drug and Cosmetic Act, prohibits tolerances for any pesticide that causes cancer in test animals or in humans if the pesticide concentrates in processed food or feeds. This volume examines the impacts of the Delaney Clause on agricultural innovation and on the public's dietary exposure to potentially carcinogenic pesticide residues. Four regulatory scenarios are described to illustrate the effects of varying approaches to managing oncogenic pesticide residues in food.