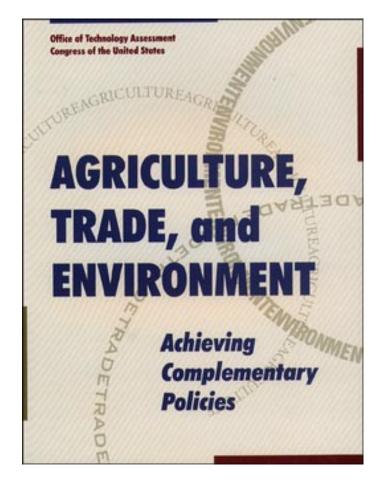
Agriculture, Trade, and Environment: Achieving Complementary Policies

May 1995

OTA-ENV-617 GPO stock #052-003-01412-2



Recommended	Citation: U.S.	Congress, O	ffice of Technolog	gy Assessm	ent, Agriculture
Trade, and	Environment:	Achieving	Complementary	Policies,	OTA-ENV-617
(Washington,	DC: U.S. Gover	nment Printi	ng Office, May 19	95).	

Foreword

imes have changed. No where is that more evident than in U.S. agriculture. Increasing global integration, expanding world agricultural markets, and broadening environmental priorities both at home and abroad are defining new policy challenges for the United States. Passage of the North American Free Trade Agreement and the Uruguay Round Agreements of GATT have spurred debate about the effects that liberalizing trade might have on the environment, and these debates continue. As the 104th Congress prepares to deliberate reauthorization of the Food, Agriculture, Conservation, and Trade Act (FACTA), more commonly referred to as the 1995 Farm Bill, the relationships among agriculture, trade, and the environment are prominent subjects.

Anticipating further debates on free trade, on FACTA, the Clean Water Act, and other policy issues related to agriculture, trade, and the environment, Congress requested this assessment to provide guidance on policies and technologies needed for U.S. agriculture to be competitive in world markets and to ensure that environmental goals are met. Committees requesting the assessment were the Senate Committee on Agriculture, Nutrition, and Forestry; the House Committee on Agriculture; and the House Committee on Foreign Affairs.

This report provides information that can help align agricultural legislation with emerging needs and trends. Current policies do not ameliorate conflicts between agricultural production and environmental quality, between trade and the environment, and between agriculture and competitive trade. Opportunities for greater complementarity among these areas are possibly being missed.

Technology is integral to achieving complementarity. So often, agricultural technology has been developed for the sole purpose of increasing production with little attention to the market, environmental, or budgetary trade-offs. Unintended consequences have often been the result. Today, with the vast array of powerful scientific tools available, such as biotechnology and advanced computer technologies, it may be possible to develop technologies that incorporate multiple objectives, such as increasing production while enhancing environmental quality. Innovations in science and technology paired with future-oriented policies to guide agriculture, trade, and the environment could position the United States as a leader in world markets and in domestic environmental protection.

OTA greatly appreciates the contributions of the Advisory Panel, authors of commissioned papers, workshop participants, and the many additional people who reviewed material for the report or gave valuable guidance. Their timely and indepth assistance allowed us to do the extensive study our requesters envisioned. As with all OTA studies, the content of this report is the sole responsibility of OTA.

ROGER C. HERDMAN

Director

Advisory Panel

Alexander F. McCalla

Panel Chair
Director, Agriculture & Natural
Resources Department
The World Bank
Washington, DC

Sandra Batie

Elton R. Smith Professor of Food & Agricultural Policy Michigan State University

William L. Bryant

Chairman W.L. Bryant Co. Seattle, WA

Anne Chadwick

Trade Policy Advisor California Department of Food & Agriculture The Chadwick Co. Sacramento, CA

John M. Duxbury

Director, Agricultural Ecosystems Program Cornell University Ithaca, NY

Peter Emerson

Senior Economist Environmental Defense Fund Austin, TX

Dan Esty

Director
Yale Center for Environmental
Law & Policy
New Haven, CT

David Frederickson

President Minnesota Farmers Union St. Paul, MN

Stephen R. Gliessman

Director, Department of Agroecology Program University of California Santa Cruz, CA

Ralph W.F. Hardy

President Boyce Thompson Institute Ithaca, NY

Robbin Johnson

Corporate Vice President Cargill, Inc. Minneapolis, MN

Jack Laurie

President Michigan Farm Bureau Lansing, MI

Kitty Reichelderfer Smith

Director of Policy Studies Henry A. Wallace Institute for Alternative Agriculture Greenbelt, MD

Ann Veneman

Counsel Patton, Boggs, & Blow Washington, DC

Justin R. Ward

Senior Resource Specialist Natural Resources Defense Council Washington, DC

Cecil A. Watson

Farmer Cavalier, ND

Pete Wenstrand

President National Corn Growers Assoc. Essex, IA

Note: OTA appreciates and is grateful for the valuable assistance and thoughtful critiques provided by the advisory panel members. The panel does not, however, necessarily approve, disapprove, or endorse this report. OTA assumes full responsibility for the report and the accuracy of its contents.

Project Staff

Clyde Behney

Assistant Director

Walter E. Parham¹

Progam Director

Food & Renewable Resources

Robert Niblock²

Program Director Environment Program MICHAEL J. PHILLIPS

Project Director

David E. Ervin

Senior Analyst

Leo V. Mayer

Senior Analyst

Sherry L. Showell

Analyst

Elisabeth A. Graffy

Analyst

Vivian N. Keller

Analyst/editor

ADMINISTRATIVE STAFF

N. Ellis Lewis¹

Office Administrator

Kathleen Beil²

Office Administrator

Nellie M. Hammond

Administrative Secretary

Kimberly Holmlund²

Administrative Secretary

Sharon Knarvik²

Secretary

Carolyn M. Swann¹

PC Specialist

¹Through February 1994 2From March 1994