Prepared by the Alternative Farming Systems Information Center (AFSIC) staff and volunteers, this annotated bibliography provides a list of 85 recently published books pertaining to sustainable agriculture. AFSIC focuses on alternative farming systems (e.g., sustainable, low-input, regenerative, biodynamic, and organic) that maintain agricultural productivity and profitability while protecting natural resources. When combined with AFSIC's earlier publication, "Tracing the Evolution of Organic/Sustainable Agriculture: A Selected and Annotated Bibliography," these titles provide bibliographic coverage of sustainable agriculture literature from 1580 to 1994. Information provided includes title, author, publisher, National Agricultural Library number, and annotation. (LZ)
Sustainable Agriculture in Print: Current Books

Special Reference Briefs: SRB 95-02
Updates SRB 94-06

AFSIC Staff and Volunteer
Alternative Farming Systems Information Center
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Introduction

Prepared by the Alternative Farming Systems Information Center (AFSIC) Staff and Volunteer, this publication provides a list of recently published books pertaining to sustainable agriculture. Additional titles, going back to 1989, may be found in the 1992, 1993, and 1994 editions of this series (SRB 92-15, SRB 93-04, and SRB 94-06).

When combined with our earlier publication, Tracing the Evolution of Organic/Sustainable Agriculture: A Selected and Annotated Bibliography, these titles provide bibliographic coverage of sustainable agriculture literature from 1580 to 1994.

AFSIC is one of eleven Information Centers at the National Agricultural Library (NAL) that provide in-depth coverage of specific subject areas relating to the food and agricultural sciences. AFSIC focuses on alternative farming systems, e.g., sustainable, low-input, regenerative, biodynamic, organic, that maintain agricultural productivity and profitability while protecting natural resources. Support for AFSIC comes to NAL from the USDA's Sustainable Agriculture Research and Education (SARE) program, which is under the jurisdiction of the Cooperative State Research, Education, and Extension Service (CSREES).

For additional reference sources on the many issues and techniques relevant to sustainable agriculture, you may request AFSIC’s "List of Information Products". For a copy of this list, or for answers to questions, please contact:

Alternative Farming Systems Information Center
National Agricultural Library, Room 304
10301 Baltimore Blvd.
Beltsville, MD 20705-2351

Telephone: (301) 504-6559
FAX: (301) 504-6409
INTERNET: afsic@nalusda.gov

Jane Potter Gates
Coordinator, AFSIC
Title: *Advances in Sustainable Small Ruminant-Tree Cropping Integrated Systems*
Editors: Sivaraj, S.; P. Agamuthu; T.K. Mukherjee
NAL Number: QL737.U5W675 1992
Annotation: Proceedings of a workshop held Nov. 30 - Dec. 4, 1992, at Kuala Lumpur, that focused on the development of production systems of small ruminants (mainly sheep and goats) and trees (largely coconut, oil palm, rubber) in south and southeast Asia. Considers the relevance of integrated small ruminant-tree crop systems to sustainable agriculture and includes information on forage and grazing, animal productivity, socioeconomics, marketing, and animal health.

Title: *Agricultural Ecology*
Author: Tivy, Joy
NAL Number: S589.7.T58
Annotation: Analyzes important ecological characteristics that affect the relationships between crops, livestock and the environment, and how man has managed and altered the agro-ecosystem. Examines crops, livestock, climate and soil and the processes of nutrient cycling and energy flows; natural and man-made problems that place severe limitations on agricultural use, with emphasis on paddy rice, irrigation agriculture and modern intensive farming. Assesses environmental impact on both temperate and tropical agriculture.

Title: *Agriculture and Environmental Challenges: Proceedings of the Thirteenth Agricultural Sector Symposium*
Editors: Srivastava, Jitendra P. and Harold Alderman
NAL Number: S589.75.A365 1993
Annotation: Papers include general views on agriculture and environmentally sustainable development; technical, socioeconomic and policy considerations for sustainable agriculture; population growth and land degradation; conservation tillage for conserving soil, moisture and energy; moisture management in semiarid regions; soil fertility management in the tropics; biological nitrogen fertilization; making integrated pest management work in developing countries; changing farming practices of smallholders in Central America; women in agricultural resource management; poverty and the environment in developing countries.

Inquiries may be made to The World Bank, Office of the Publisher, 1818 H St. NW, Washington, DC 20433.
Title: *Agriculture and the Environment*
Editors: Edwards, C.A. et al
NAL Number: S589.75.158 1993

Annotation: Papers presented at the International Conference on Agriculture and the Environment, November 10-13, 1993. Reprinted from *Agriculture, Ecosystems and Environment*, vol. 46, nos. 1-4, 1993. Topics include observations on the concept and future of agricultural sustainability; land and energy use in tropical agriculture; tropical forests and global carbon; geologic research in support of sustainable agriculture; land degradation and sustainable agricultural growth in developing countries; global warming; agroecology and integrated farming systems; economic framework for evaluating agricultural policy and sustainability of production systems; managing pesticides and agricultural practices for crop production and water quality protection; environmental and economic aspects of integrated pest management.

Title: *Agriculture and the Environment*
Editor: Jones, John Gareth
NAL Number: TD427.A35.A38 1993

Annotation: Another title in the Ellis Horwood series, *Environmental Management, Science and Technology*. A collection of papers and discussions by British farmers, government regulators, environmental managers and academic professionals. Although reflecting British circumstances, many of the issues discussed will be familiar to anyone interested in the frequent conflict between agriculturists and environmentalists. Discusses the farmer’s need for agricultural chemicals, preventing water pollution from manufacturing and agrochemicals, agricultural use of sewage sludge, river and groundwater contamination from farming activities (including fish farming), farm waste and nitrate pollution, agricultural requirements for water for irrigation and aquaculture, agricultural benefits and environmental impact from land drainage.

Title: *Agriculture, Environment, and Health: Sustainable Development in the 21st Century*
Editor: Ruttan, Vernon W.
NAL Number: S589.75.A39 1994

Annotation: Based on papers presented at the Conference on Agriculture, Environment, and Health, held at Bellagio, Italy, October 15 - 18, 1991. Examines the challenges and significance of global population and environmental changes for achieving sustainable agricultural development. Topics include building national and international agricultural research systems; constraints on institutional innovation; health research in the Third World; capacity to monitor the sources and effects of climatic and environmental changes on agriculture.

Title: *Agronomic, Economic, and Ecological Relationships in Alternative (Organic), Conventional, and Reduced-Till Farming Systems*
Editors: Smolik, James D. et al
Publisher: [Brookings, SD?]: Agricultural Experiment Station, South Dakota State University,
Annotation: Summarizes results of research trials begun in 1984 on several South Dakota farms. Objectives were to measure yields in alternative, conventional, and reduced-till systems; compare whole-farm productivity and economic performance; determine the influence of each type of farming on soil nutrients, temperature, water content, density, residue cover, and snow catch; compare the quantity of plant and microbial feeding nematodes, earthworms, fungi and bacteria; determine weed density and insect damage; consider the relative sustainability of each system in connection with human health, pollution and other environmental factors.

Title: At Nature’s Pace: Farming and the American Dream
Author: Logsdon, Gene
NAL Number: S441.L613 1994
Annotation: A collection of informal essays dealing with the decline of rural society, the failure of agricultural education, traditional farming economies (such as the Amish), sustainable farms as repositories of human skills and common sense; thoughts about the future for farms and rural communities.

Title: Biotic Diversity in Agroecosystems
Editors: Paoletti, M.G. and D. Pimentel
NAL Number: S589.7.S93 1990
Annotation: Selected papers from a symposium on agroecology and conservation issues in tropical and temperate regions held at Padova, Italy, Sept. 26-29, 1990. Reprinted from the periodical, Agriculture, Ecosystems and Environment, vol. 40, nos. 1-4 (1992). Discusses the inability of sustainable agriculture and forestry to be productive when significant numbers of species in natural biota are lost; agricultural technologies that improve the environment and contribute to increasing biodiversity; relationship between microbial biomass and soil organic matter; using landscaping, legumes, and new crops to increase the diversity of agriculture; monitoring biodiversity.

Title: Building Bridges: Cooperative Research and Education for Iowa Agriculture: Leopold Center for Sustainable Agriculture 1992 Proceedings
NAL Number: S494.5.S86B85 1992
Annotation: Proceedings of the third annual Leopold Center conference held Feb. 18 and 19, 1992, at Ames. Discusses the roles of regulation, financial incentives, penalties, design specifications, performance standards, technical assistance, and education in encouraging sustainable agriculture. Other topics include nitrogen fertilization rates for corn; insecticide rates and corn rootworm larval damage; response of the farm supply and service industry to the trend toward sustainable agriculture; balancing economic and environmental considerations in sustainable farm planning and management decisions; government farm policy; farmers’ research needs; sustainable agriculture in developing countries. Additional abstracts, largely based on
Iowa experiences, include the effect of soybean planting date on damage from insect pests; using plant pathogens and natural product chemicals for control of weeds; contour strip-cropping with trees on erodible land; using fall-planted spring oats as a cover crop to reduce soil erosion after soybean harvest; pasture and forage management; genetic diversity in alternative crops; tillage practices and ground water quality.

Title: *Choosing a Sustainable Future: The Report of the National Commission on the Environment*
Author: National Commission on the Environment
NAL Number: HC110.E5N316 1993
Annotation: Cites the global and domestic environmental problems which the U.S. faces, e.g., loss of biodiversity, climate change, ozone depletion, air pollution, waste disposal, encroachment of land development on critical ecosystems and rural landscapes, mismanagement of public lands and resources, deteriorating quality of farmland, contamination and reduction of freshwater supplies, marine pollution and overfishing. Offers recommendations that include: designing technologies for sustainable development and energy use; government tax and incentive policies; promoting environmental awareness; improving living standards in developing countries; moderating population growth; legislative means for preventing pollution; achieving environmental goals and economic growth; ensuring viable habitats for humans and other species.

Title: *Conservation Tillage in Temperate Agrosystems*
Editor: Carter, Martin R.
NAL Number: S604.C65 1994
Annotation: Commentaries on the development and adaptation of conservation tillage practices in temperate environments from 42 contributors from the U.S., Canada, New Zealand, Australia, and Europe. Examines barriers to adopting conservation tillage, such as soil characteristics, biological factors and climate and proposes strategies for overcoming these impediments. Researchers describe the features and experiences of crop performance with reduced tillage in the U.S. (South, Cornbelt, North Central, Pacific Northwest, southern Great Plains), eastern and prairie Canada, Scandinavia, Great Britain, Germany, France, eastern Europe, New Zealand, and the wheat-sheep area of southeastern Australia.

Title: *CRC Handbook of Alternative Cash Crops*
Author: Duke, James A. and Judith L. duCellier
NAL Number: SB111.D85 1993
Annotation: Contains profiles on 130 plant species suggested as alternative crops for the tropics. Each plant profile lists culinary, medicinal, energy and other uses, as well as information on chemistry, physical description, ecology, cultivation, harvesting, yields, and pest control factors.
Title: *Criteria for Measuring Sustainability of Livestock Production Systems*
Authors: de Wit, J. et al
NAL Number: 49.9.UT72R no. B-394
Annotation: Looks at the essential elements of sustainability that include livestock in an agricultural system. Considers food shortages, land scarcity, soil degradation, inefficient use of energy, nutrients, water, deforestation, environmental pollution, and decline in biodiversity. Offers methods for modeling and analyzing criteria to determine the sustainability of livestock in different production systems and situations.

Title: *Crop Improvement for Sustainable Agriculture*
Editors: Callaway, M. Brett and Charles A. Francis
NAL Number: S494.5.S86O97 v.4
Annotation: Volume 4 in the series, Our Sustainable Future. Stresses the importance of plant breeding (including trees for agroforestry) and the need to increase genetic diversity to enhance the efficiency of resource use and to produce plants with higher stress tolerance and resistance to insects, weeds and other pests. Breeding objectives should be built on biological systems that produce crops that are compatible with field environments rather than modifying the environment to fit the requirements of crops. Examines plant breeding objectives, methods and applications and strategies for genetic improvement. Discusses the role of seed companies and biotechnology in contributing to these objectives.

Title: *Crop Protection and Sustainable Agriculture*
Editors: Chadwick, Derek and Joan Marsh
NAL Number: SB950.A2C76 1993
Annotation: Ciba Foundation Symposium no. 177, World Food Production by Means of Sustainable Agriculture, held Nov. 30 - Dec. 2, 1992, in Madras, India. Includes discussions on methods for decreasing crop damage in both intensive and extensive agricultural systems. Describes surveillance and monitoring techniques for encouraging natural pest predators, biological controls, developing resistant crop varieties, encouraging and assisting farmers to experiment.

Title: *Crops Residue Management*
Editors: Hatfield, J.L. and B.A. Stewart
NAL Number: S627.C76C76 1994
Title: Defining Sustainable Forestry
Editors: Aplet, Gregory H. et al (Wilderness Society)
NAL Number: SD387.S87D44 1993
Annotation: A collection of papers from a conference held in January 1992, jointly sponsored by the Wilderness Society, American Forests, and World Resources Institute. The conference attempted to create a framework upon which to base future development of forestry. Concluded that there is insufficient understanding of forest ecosystems to accurately define how an ecosystem approach will differ from conventional forest management. Management will require a broader concept of what constitutes a forest ecosystem and must consider the social, economic and political factors that will affect an ecological approach. Topics include exploring the objectives of sustainable forestry; regional approaches to sustainable ecological systems; social and policy considerations.

Title: Dictionary of Biological Control and Integrated Pest Management
Authors: Coombs, R.F. and S.G. Lisansky
NAL Number: SB933.3.C65 1993
Annotation: A reference book of insects, microbes, diseases, genetic and other terms that are pertinent to biological control and management of pests and diseases.

Editor: Breth, Steven
NAL Number: S401.E58 1994
Annotation: Topics include: managing soil and other conditions for achieving a global sustainable agriculture; water resource and conservation strategies; the effect of forest resources on agricultural productivity and environmental quality; wildlife and other ecosystem factors involved in the development of African rangelands; the key role of genetic conservation and biodiversity for future sustainability. Discussions cover cultural, economic, and social implications of development assistance.

Inquiries may be made to Winrock International, Route 3, Box 376, Morrilton, AR 72110-9537.

Title: Environmental Indicators for Sustainable Agriculture: Report on a National Workshop, November 28-29, 1991
Editor: Hamblin, Ann
Publisher: Canberra, Australia: Bureau of Rural Resources et al, 1992. 96 p.
NAL Number: S478.A1E58 1992
Annotation: Proceedings of a workshop that defined key indicators for measuring and monitoring trends in sustainability in Australia. These indicators were separated into three broad
categories: (1) management, including finance, profitability, planning and operations; (2) production, involving productivity of crops and animals relative to water, nutrients, labor, and other variables; (3) condition of the resource base, consisting of soil fertility, physical condition, biomass, and water quality. Provides an overview of the diverse agro-ecological regions of Australia and discusses methods and criteria for evaluating the sustainability of Australian agriculture.

Title: Environmental Soil Science
Author: Tan, Kim H.
NAL Number: S591.T35 1994
Annotation: Designed as both a reference source for agronomists, environmentalists, foresters and others, and a text for students in soil chemistry, forest resources, and ecology. Examines how the solid, liquid and gas constituents of soil interact with the environment and the role of environmental factors in the formation of different types of soil. Discusses the weathering of primary minerals and formation of clay minerals. Examines organic elements, including acids, lipids, proteins and carbohydrates; soil biomass; beneficial effects of microorganisms in decomposition, mineralization, carbon and nitrogen cycles; soil aeration; classification of soil water; electrochemical properties of soil solids. Considers the effects of clearing new land, plantation agriculture, agroforestry, organic farming and intensifying soil productivity of crops. Looks at soilless agriculture, such as aquaculture and hydroponics; the impact of agricultural and industrial waste, acid rain, the greenhouse effect, and other types of pollution.

Title: Ethics, Public Policy, and Agriculture
Authors: Thompson, Paul B.; Robert J. Matthews; Eileen O. van Ravenswaay
NAL Number: BJ52.5.T54 1994
Annotation: Discusses the ethical issues involved in several aspects of agriculture and public policy, such as resource management, food production, distribution and consumption. Examines criteria for analyzing social ethics and public policy; factors involved in determining food safety policy (reviews the Alar debate); goals of environmental policy; farm animal welfare; foreign agricultural assistance; views of sustainable agriculture (including a critique of the ideas of Wes Jackson and Miguel Altieri); agrarian traditionalism and the future of the family farm.

Title: Farming and Clean Water: A Community Action Guide
Publisher: [Minnesota]: The Minnesota Project/the Midwest Consortium on Groundwater and Farm Chemicals, March 1993. 110 p.
NAL Number: TD427.A35F37 1993
Annotation: Explains the principles of sustainable agriculture and how these contribute to the protection of groundwater. Defines a Special Protection Area (SPA) as a region with groundwater or surface water pollution from farming and strategies for communities, associations, and individuals to pursue in combating the problem. Offers ideas for community decision making and how to effect change; what information and research is required, such as analyzing the hydrogeology of the area, water quality, pollution sources, types of farms in the
area, public agencies and non-government organizations that are involved in groundwater protection. Suggests educational, regulatory, and motivational approaches. Contains a directory of organizations that may be contacted for information and government agencies in each state responsible for groundwater.

Title: The Fourth No-Till Q & A Book
Editor: Lessiter, Frank
NAL Number: S604.N675 1993
Annotation: An updated edition to this series. Includes 184 questions asked of experts at the National No-Tillage Conference about planting, drilling, fertilization, weeds, insects, cover crops, managing residue, corn and soybeans.

Title: From Land to Mouth: Understanding the Food System (2nd ed.)
Author: Kneen, Brewster
NAL Number: HD9000.5.K526 1993
Annotation: Originally published in 1989, this revised and expanded edition describes how the global food system functions and how it might function. Includes everything from farm suppliers to retail outlets, from farmer to consumer, and the integration of production, processing and distribution. Looks at the cultural aspects and logic of a food system that provides abundance for the wealthy while producing hunger and ecological disaster. Proposes the creation of local sustainable food systems founded on justice and a sense of community.

Title: From the Good Earth: A Celebration of Growing Food Around the World
Author: Ableman, Michael
NAL Number: SB175.A25 1993
Annotation: With a foreword by Wes Jackson. A wide ranging photographic essay, with accompanying text, of contrasting farm operations. Includes chemical-free and other ventures in California, peasant plots and indigenous crops in Peru; intercropping and traditional methods in China; farming for export and survival in Africa; Hopi cultivation in the Arizona desert; Sicilian traditional farming. Looks at environmental and human health and pesticides; urban gardening; how food is marketed locally around the world. Considerable attention is given to sustainable agriculture.

Title: Future Harvest: Pesticide-Free Farming
Author: Bender, Jim
NAL Number: S494.5.S86097 v.5
Annotation: Volume 5 in the series, Our Sustainable Future. The author shares his experiences and views gained from a transition to farming without pesticides and synthetic fertilizers on a Nebraska farm. Explores why pesticide-free farming is a necessary objective and the problems involved in converting from conventional methods. Compares alternative and conventional
agriculture and deals with the common arguments used against alternative or organic systems. Examines the role of livestock in alternative agriculture.

**Title:** The Global Environment: Securing a Sustainable Future  
**Authors:** ReVelle, Penelope and Charles ReVelle  
**Publisher:** Boston: Jones and Bartlett Publishers, 1992. 480 p.  
**NAL Number:** TD174.R52 1992  
**Annotation:** Designed as a college text for environmental studies. Draws from current ideas and principles on which a sustainable society might be based. Provides an overview of the diverse types of ecosystems. Discusses threats to land and wildlife resources, such as erosion, desertification, and accelerating loss of biodiversity. Attention is given to pesticides, food production and human health; the need for alternative agricultural schemes and setting goals for agriculture; efficient use of conventional and renewable energy; disposing and recycling of wastes; the effects of air pollution, acid rain, ozone depletion, global climate change; causes and consequences of water pollution; and the necessary components of a sustainable society. Uses familiar topics to illustrate various aspects, such as the spotted owl, old growth forests, the Alar experience, locust and screw worm plagues in Africa, agroforestry and polycropping.

**Title:** Gray World, Green Heart: Technology, Nature, and the Sustainable Landscape  
**Author:** Thayer, Robert L. Jr.  
**Publisher:** New York: John Wiley & Sons, 1994. 352 p.  
**NAL Number:** GE140.T48 1994  
**Annotation:** A title in the Wiley Series in Sustainable Design. A thoughtful analysis of the adversarial relationship between nature and technology, and the difficulty Americans have in comprehending this relationship because of cultural and lifestyle attitudes. Deals with the dilemma of competing societal interests. Discusses the characteristics of environmental quality and the changing views Americans have of the environment.

**Title:** Growing Our Future: Food Security and the Environment  
**Editors:** Smith, Katie and Tetsunao Yamamori  
**Publisher:** West Hartford, CT: Kumarian Press, 1992. 172 p.  
**NAL Number:** HD9000.5.G78 1992  
**Annotation:** Papers presented at a symposium hosted by Food for the Hungry and Arizona State University at Tempe in November 1991. Focused on integrating sustainable development, protecting the environment and preventing hunger. Topics include agrarian reform and the environment in Latin America; food security and environmental degradation in Africa; the connection between hunger and environmental problems; efforts to transform dependent agricultural economies into more self-reliant, ecologically sound systems. Discusses case studies in Mali, Ethiopia, Bolivia, and Guatemala.

**Title:** Heifer Project International Integrated Smallholder Dairy Farming Manual  
**Author:** Kinsey, Erwin  
**Publisher:** Little Rock, AR: Heifer Project International, 1993. 97 p.  
**NAL Number:** (being processed)
Annotation: Although designed primarily for smallholder dairy farmers in east Africa, the practices described may be applicable to other tropical and subtropical areas. The emphasis is on raising cattle, but much of the information can be used for other dairy animals such as goats, camels, buffaloes, and yaks. Considers planting, harvesting and using fodder, breeding, housing, maximizing milk production, and health problems. Discusses the interrelationship between sustainable farming and raising dairy cattle and common mistakes often made that interfere with a sustainable relationship between land and livestock.

Inquiries may be made to Heifer Project International, P.O. Box 808, Little Rock, AR 72203.

Title: The Humane Consumer and Producer Guide: Buying and Producing Farm Animal Products for a Humane Sustainable Agriculture
Editors: Gips, Terry et al
NAL Number: S494.5.S86H86
Annotation: Defines principles and practices of humane animal husbandry and serves as a source of information for those interested in following these practices and developing markets. Includes a directory of ranches and farms producing animal products using humane and ecologically sound animal husbandry. Contains listings of processors, wholesalers and retailers who market products from humanely treated animals; researchers, consultants, educators, associations and others involved in humane sustainable agriculture.

Title: Integrated Farming Systems Research Methods 1993
Publisher: Guelph, Ontario: University of Guelph, Crop Science Dept., 1993. 69 p.
NAL Number: S494.5.A65I58 1993
Annotation: Papers and abstracts presented at the 12th annual Organic Agriculture Conference and Academic Symposium at the University of Guelph on January 29, 1993. Topics include defining and monitoring characteristics of a sustainable agroecosystem and key factors that affect agroecosystem sustainability; research in integrated farming systems in the Netherlands; comparing management strategies on Wisconsin dairy farms and in Mexico; Ontario farmer participation in developing agroecological farm plans; effect of class position on attitudes of Ontario farmers toward sustainable agriculture policies; weed control in corn, soybean and white bean.

Title: An Introduction to Agroforestry
Author: Nair, P.K. Ramachandran
NAL Number: S494.5.A45N3543 1993
Annotation: A college-level textbook that outlines the history and concepts of agroforestry, including community, farm and social forestry. Describes the elements and practices in tropical agroforestry systems; types of multi-purpose trees and shrubs that are commonly used; the effects (both beneficial and adverse) of trees on soils; nutrient cycling, soil organic matter, and nitrogen fixation; effect of agroforestry on wind and water erosion; on-farm research and field
experiments; sociocultural and economic considerations. Although most of the experiences and characteristics pertain to the tropics, there is a section devoted to temperate zone agroforestry.

**Title:** Lab to Land: Biotechnology for Sustainable Agriculture in Asia  
**Editors:** Ferchak, John and Sharmila Ribeiro  
**NAL Number:** S494.5.B563L33 1992  
**Annotation:** Proceedings of the first Asia Network for Small-Scale Agricultural Biotechnologies (ANSAB) workshop held March 29-April 1, 1992, in Kathmandu, Nepal. Presentations include individual profiles of small-scale agricultural technologies, suitable for application and commercialization, for Bangladesh, mainland China, India, Indonesia, Nepal, Philippines, Sri Lanka, Thailand, and Vietnam. Discusses case studies related to the role of small farmers, national government organizations, networks, the private sector in developing agricultural biotechnology, technology transfer, and commercialization.

**Title:** Land is Life: Land Reform and Sustainable Agriculture  
**Editors:** Dudley, Nigel; John Madeley; Sue Stolton  
**NAL Number:** HD1332.L36 1992  
**Annotation:** Includes papers presented at a conference, "Soil for Life: Promoting Sustainable Land Use", held in Berlin in November 1991. Stresses the important link between land reform in the Third World and an increase in sustainable food production and agricultural development. Relates experiences with land reform and resettlement in Brazil, Colombia, Dominican Republic, Zimbabwe, Namibia, India, Philippines, Thailand, and Indonesia.

**Title:** Let Farmers Judge: Experiences in Assessing the Sustainability of Agriculture  
**Editors:** Hiemstra, Wim; Coen Reijntjes; Erik van der Werf  
**NAL Number:** S494.5.S86L47 1992  
**Annotation:** Another in a series of publications prepared by the Information Centre of Low-External-Input and Sustainable Agriculture (ILEIA) in the Netherlands. A collection of reports by researchers and field-workers concerning innovations in smallholder systems in marginal or high-risk farming areas. Attention is given to assessing farmers' evaluation of new technologies; small farm economics; indigenous soil and crop management; organic coffee growing; rice cropping. Case studies drawn from Africa, Latin America, India, and Philippines.

**Title:** Livestock for a Small Earth: The Role of Animals in a Just and Sustainable World  
**Editor:** Aaker, Jerry (Heifer Project International)  
**NAL Number:** SF41.L58 1994  
**Annotation:** Includes contributions by James DeVries, Dan Gudahl, Jim Hoey, Robert K. Pelant and Jennifer Shumaker that focus on humane and economically and ecologically sound livestock development programs based on the principles of sustainable agriculture and 50 years of...
experience in creating and maintaining successful animal-based projects around the world. Contains an extensive bibliography that includes sources on the environment, rural development, livestock, and manuals on agroforestry, animal health, aquaculture, beekeeping, beef and dairy cattle, goats, sheep, poultry, swine, and rabbits.

Title: *Living with the Land: Communities Restoring the Earth*  
Editors: Meyer, Christine and Faith Moosang  
NAL Number: HD75.6.L58 1992  
Annotation: The fourth volume in *The New Catalyst* bioregional series. Accounts of diverse rural and urban communities and their ecologically and economically sustainable methods for using land and water. Includes reports on the Ikalahan people in the Philippines, the Ulkatcho and Kluskus of British Columbia, logging with horses in British Columbia, forest preservation in Ecuador, hill tribe projects in Thailand, seed preservation in Indonesia and British Columbia, campesino programs in Nicaragua, village farming in Nigeria, developing urban ecology in Brazil, Mexico, and British Columbia.

Title: *Mainline Farming for Century 21*  
Authors: Skow, Dan and Charles Walters Jr.  
NAL Number: S591.S57 1991  
Annotation: Deals with the molecular, physical and chemical components of soil and what can be done to promote soil nutrition. Stresses the importance of carbon for water retention and prompt seed sprouting; greater density of soil nutrients provides greater yields; shorter growing time enhances product quality; higher sugar and mineral content in plants and trees lowers the freezing point; phosphate controls the sugar content, which affects the mineral content; nitrogen is the major electrolyte in soil; foliar spray fertilization is the most efficient and economical way to apply micronutrients; fertility management is essential to insect control. Describes instruments available for testing soil elements and how to remedy deficiencies.

Title: *Making Development Sustainable: Redefining Institutions, Policy, and Economics*  
Editor: Holmberg, Johan  
NAL Number: HD75.6.M35 1992  
Annotation: Uses the term "primary environmental care" to include several approaches to grass roots sustainability that involve economic, social, and environmental systems. Topics include organizing people and institutions for change; natural resource management and economic policy; agroecology of low-external input systems; future characteristics of urban areas; defining sustainable forests; sustainable energy use in developing countries; financing sustainable development; local resource management and the future of Africa’s drylands.

Title: *Making Haste Slowly: Strengthening Local Environmental Management in Agricultural Development*  
Editors: Savenije, H. and A. Huijsman
Title: Making Sustainability Operational: Fourth Mexico/U.S. Symposium  
NAL Number: aSD11.A42 RM-240  
Annotation: Proceedings of a symposium held at Santa Fe, NM, April 19-23, 1993, to discuss the economic, social, and ecological aspects of sustainable integrated management of forests and ecosystems. Papers are in English or Spanish. Topics include defining the primary factors for evaluating natural resource sustainability; using the holistic resource management model that incorporates human values, economic and ecological considerations in determining land use; using municipal sewage sludge to rehabilitate degraded southwestern rangelands; determining the effects of pine tree diseases and insects on the sustainability of forests in the southwestern U.S. and northern Mexico; analyzing the effect of global change on regional environments; managing encinal woodlands; sustainability and sustained yield in National Forests; land grant community associations in New Mexico; creating a decision support system for managing the San Juan Tetla experimental forest in Mexico; balancing economics and ecology in rural economic development; monitoring forest and rangeland ecosystems to achieve sustainability; migratory birds and forest sustainability in Mexico.

Title: Managing Agricultural Residues  
Editor: Unger, Paul W.  
NAL Number: S604.M28 1994  
Annotation: Reviews information on the value of residues for soil and water conservation, fuel, and livestock feed. Topics include the influence of residues on controlling wind and water erosion; nutrient cycling; soil chemical and physical properties; soil micro- and macro-organisms; weed, insect, and disease control.

NAL Number: SD414.E85M56 1993  
Annotation: Responses of European countries to resolutions prepared at the first conference at Strasbourg in 1990. Each national report briefly describes measures that country has taken to assist in forming a European network of permanent sample plots for monitoring forest.
ecosystems, conserving forest genetic resources, adapting management of mountain forests to new environmental conditions, expanding a research network on tree physiology and forest ecosystems, and creating a data bank on forest fires. There is a general overview of progress on these several resolutions.

Title: The Natural Magic of Mulch: Organic Gardening Australian Style
Author: Roads, Michael J.
NAL Number: S661.5.R63 1993
Annotation: The second printing of this book, originally published in 1989 by another publisher. A lighthearted approach to the basics of organic gardening gained from experiences in Australia. Stresses the vital role of mulch in feeding the soil and providing a protective cover. Offers several sources for obtaining mulch, including hay, seaweed, fruit and vegetable scraps, paper waste, pine needles, hair, sugar cane residue, feathers, leaves, grass clippings, sawdust, woodchips, and animal manure. Examines the necessary elements of healthy soil and how to make and use natural fertilizers. Describes methods for growing fruits, vegetables, fruit and ornamental trees, shrubs, and lawns. Provides techniques for pest control using herbs and organic sprays.

Title: A New Vision for Agriculture in the 1990s
Author: Clancy, Kate
NAL Number: HD9000.5.C58 1991
Annotation: The keynote address delivered at the annual meeting of the Minnesota Food Association in St. Paul on April 19, 1991. Briefly outlines problems in nutrition and agriculture, including biotechnology, the food processing industry, the growth of imitation foods, hunger and poverty.

Inquiries may be made to Minnesota Food Association, 2395 University Ave., Room 309, St. Paul, MN 55114.

Title: Non-governmental Organizations and the State in Africa: Rethinking Roles in Sustainable Agricultural Development
Editors: Wellard, Kate and James G. Copestake
NAL Number: S494.5.15N65 1993
Annotation: This and the following two titles are part of the Non-governmental Organizations series. Focuses on the performance and capabilities of church and private organizations in promoting technological innovations, research, environmental awareness, and strengthening grass roots organization in Zimbabwe, Kenya, Zambia, Ghana, Gambia, and Senegal.

Title: Non-governmental Organizations and the State in Asia: Rethinking Roles in Sustainable Agricultural Development
Editors: Farrington, John et al
NAL Number: HN655.2.C6N66 1993
Annotation: Examines the activities of private and church organizations in developing sustainable technology and management practices among small-scale, low-income farmers. Includes cooperative ventures with local government. Focuses on Bangladesh, India, Nepal, Philippines, Indonesia, and Thailand.

Title: Non-governmental Organizations and the State in Latin America: Rethinking Roles in Sustainable Agricultural Development
Editors: Bebbington, Anthony et al
NAL Number: HD1790.5.Z8B43 1993
Annotation: Explores the activities and capabilities of private organizations in promoting technological innovation, sustainable practices, grass roots organization among small farmers, and cooperative relations with governments in Central and South America.

Title: The Organic Chef: Canadian Chefs Harvest the Best of Farm and Field
Author: Herman, Jane
NAL Number: TX741.H47 1993
Annotation: Of special interest to those using organic cookery or organic producers who may find organic recipes valuable as a marketing tool. A collection of over 60 recipes using organic products. Includes soups, salads, breads, seafood, poultry, meat, vegetables, and desserts.

Title: Organic Farming
Author: Lampkin, Nicolas
NAL Number: S605.5.L35 1990
Annotation: Covers the principles and practices of organic farming that include soil management; crop nutrition; rotation systems; managing grassland, fodder and horticulture crops, cereals, vegetables, and legumes; using manures and organic residues; weed, pest and disease control; animal husbandry (including dairy and beef cattle, sheep, pigs, poultry, bees); marketing and processing organic products; financial and economic aspects of organic operations; procedures and problems in converting from conventional to organic farming. Outlines British organic standards. Lists the scientific and popular names of plants, pests, and diseases.

Distributed in North America by Diamond Farm Enterprises, Box 537, Alexandria Bay, NY 13607.

Title: The Organic Gardener's Home Reference: A Plant-by-Plant Guide to Growing Fresh, Healthy Food
Author: Denckla, Tanya
NAL Number: SB324.3.D46 1994
Annotation: Covers the essential aspects of creating a self-sustaining organic garden. Includes tips on planning, preparing sites, choosing rootstock, recognizing pests and diseases and methods for control. Provides profiles on popular vegetables, fruits, nuts, and herbs that advise when and how to grow, harvest, and store. Contains a directory of seed companies, nurseries, equipment and pest control suppliers, state gardening associations, and a bibliography of helpful periodicals and books.

Title: Pest Control and Sustainable Agriculture
Editors: Corey, S.A.; D.J. Dall; W.M. Milne
NAL Number: S494.5.S86A97 1993
Annotation: Proceedings of the Australian Applied Entomological Research Conference held at Canberra, April 28 - May 1, 1992, to review developments in controlling insect pests and the environmental impact of current management practices. General topics include integrated pest management; forecasting and modelling; crop loss assessment; biological, chemical, microbial and cultural controls; host plant resistance; pheromones; pollination biology; applied nematology.

Title: Planning for a Sustainable Environment: A Report by the Town and Country Planning Association
Editor: Blowers, Andrew
NAL Number: HC79.E5P53 1993
Annotation: Perspectives on planning policy and sustainable development in Britain. Focus is on urban or mixed urban-rural areas. Intended as a guide for planners, environmentalists, and policy makers. Includes discussions on land use, ecosystems and natural resources (including agriculture), energy options, transportation and the environment, dealing with pollution and waste, defining a sustainable economy.

Title: Plants, Genes, and Agriculture
Authors: Chrispeels, Maarten J. and David E. Sadava
NAL Number: SB123.57.C48 1994
Annotation: Examines how plant genes and genetic engineering are involved in agriculture around the world. Promotes three central themes: (1) modern farming is a scientific enterprise, manipulating the relationship between plants and their environments; (2) scientific manipulation of plants can assist in increasing crop production; (3) agriculture must be conducted in a sustainable manner to ensure food production for the future. Discusses the growth of population and food demand and how farming systems have developed to keep pace; elements that affect agricultural productivity, such as availability of arable land, social and cultural factors, farming practices, climatic and ecological changes; effects of agricultural techniques on ecosystems and concern about the sustainability of intensive farming. Presents an overview of plant biotechnology and its impact on plant breeding; plants and human nutrition; the role of energy in plant growth and crop production; elements that contribute to healthy soil; the molecular basis
of plant breeding and genetic engineering. Suggests that plant genetic stock around the world has narrowed as a result of modern breeding and the Green Revolution. Looks at pests and strategies for control, including plant chemicals, biological methods, integrated pest management, and genetically enhanced plants. Deals with safety and quality of genetically engineered food.

**Title:** Poultry Feed from Waste: Processing and Use  
**Authors:** El Boushy, A.R.Y. and A.F.B. van der Poel  
**NAL Number:** SF494.E38 1994

**Annotation:** Provides technical information on processing waste material into nutritious, inexpensive alternative feed for poultry. Types of waste include feathers, egg shells and other hatchery by-products; hide and tanning material; fruit, vegetable, and brewers’ residues; municipal refuse.

**Title:** Practical Organic Gardening  
**Author:** Palliser, David  
**NAL Number:** SB453.5.P35 1992

**Annotation:** A short illustrated guide to creating a viable organic garden. Discusses how to develop and improve proper soil; how to protect plants from pests, diseases, air pollution and adverse weather; choosing rootstock and seeds; how to sow and plant. Offers methods for tending fruit (apples, cherries, currants, blackberries, raspberries, strawberries, gooseberries) and vegetables.

**Title:** Proceedings: Sustainable Soil Management Symposium  
**Publisher:** Davis, CA: University of California, Sustainable Agriculture Research & Education Program, 1993. 90 p.  
**NAL Number:** S622.2.S97 1993

**Annotation:** Proceedings of a symposium held at Davis on April 22, 1993. Papers, farmer presentations, and related journal articles include: a discussion of the beneficial aspects of soil microorganisms for contributing nutrients to crops; practices that ensure the viability of the link between organic matter and a vital microbial biomass; the important role of earthworms in healthy soil and how to enhance the beneficial effects; types of organic fertilizers and soil amendments, including animal manure, sewage sludge, crop residues, blood, bone, meat and feather meal, granulated minerals, lawn trimmings and waste paper; how to produce different types of compost and how to determine which type to use; managing soil fertility for California oranges, olives, walnuts, prunes and grapes; a comparative study of organic and conventional tomato production systems in California; soil fertility management at the agroecology program farm of the University of California, Santa Cruz; comparing soil quality and financial performance of New Zealand biodynamic and conventional farms.
Title: Proceedings of a Conference on Participatory On-farm Research and Education for Agricultural Sustainability
Editor: Clement, Lennis L.
Publisher: Urbana, IL: Illinois Agricultural Experiment Station, University of Illinois College of Agriculture, 1992. 249 p.
NAL Number: S494.5.S86C69 1992
Annotation: Proceedings of a conference held July 30 - Aug. 1, 1992, in Champaign, IL. Papers and case study reports on farmer participation in various aspects of research in sustainable agriculture; using cooperative extension, fairs, networking, and other forms of farmer education; designing on-farm research and demonstration trials; establishing cooperation between farmers and private and government institutions.

Available for purchase from Illinois Agricultural Experiment Station, University of Illinois College of Agriculture, 211 Mumford Hall, 1301 W. Gregory Dr., Urbana, IL 61801.

Title: The Real Dirt: Farmers Tell About Organic and Low-Input Practices in the Northeast
Editors: Smith, Miranda et al
NAL Number: S605.5.R43 1994
Annotation: A collection of practices and techniques used by organic and low-input farmers during 1989-1991. Topics include rotations, cover crops, green manures, compost, and other elements of soil management; pest, disease and weed management; vegetable, herb, fruit, and greenhouse production; livestock and dairy management; organic certification; economics and marketing; making the transition from a conventional to a low-input or organic operation. Contains a directory of Northeast organic growers associations, certification programs, cooperative extension and IPM offices.

Copies may be obtained from Northeast Region SARE/ACE programs, Hills Bldg., University of Vermont, Burlington, VT 05405.

Title: Reconciling Sustainability with Productivity Growth: Opportunities for Collaboration Among U.S. Universities, CGIAR Centers, and the NARS
NAL Number: S494.5.S86R43 1993
Annotation: A summary report of a workshop co-sponsored by the University of Florida and Cornell University at Gainesville, May 19-21, 1993. Considers how to meet the needs of a growing population without increasing environmental degradation, the conflict between sustainability and the pressure for higher levels of food production. Focuses on the advantages of and mechanisms for strengthening university ties with the Consultative Group on International Agricultural Research (CGIAR) and the National Agricultural Research Services (NARS). Proposes a research agenda that involves genetic development and conservation, integrated pest management, agroecological environmental variations, resource management, and
socioeconomic issues.

**Title:** Reluctant Partners?: Non-governmental Organizations, the State and Sustainable Agricultural Development  
**Authors:** Farrington, John et al  
**Publisher:** New York: Routledge, 1993. 222 p.  
**NAL Number:** HD1417.F34 1993  
**Annotation:** Another title in the Non-governmental Organizations series. An assessment of the potential of private and church organizations in assisting the Third World to achieve technological innovation and sustainable development. Examines collaborative efforts with national and local governments.

**Title:** Restoration Forestry: An International Guide to Sustainable Forestry Practices  
**Editor:** Pilarski, Michael  
**Publisher:** Durango, CO: Kivaki Press, 1994. 525 p.  
**NAL Number:** SD387.S87R47 1994  
**Annotation:** An extensive collection of essays on sustainable forestry and reports on research, such as developing wood alternatives and forest ecosystem restoration projects in Asia and North and South America. Contains directories of professional, governmental, grass roots, and international forestry organizations; companies that sell sustainably produced wood products; sources of tree seed; journals, newsletters, and other periodicals; films and videos; and a bibliography of 800 books on forestry and allied topics.

**Title:** Return to the Good Earth: Damaging Effects of Modern Agriculture and the Case for Ecological Farming  
**Publisher:** Penang, Malaysia: The Third World Network, 1990. 570 p.  
**NAL Number:** S589.7.R47 1990  
**Annotation:** A collection of articles concerning the damage caused by modern agriculture and the superiority of ecologically sound, chemical-free farming. Topics include the dangers of pesticide overuse; the green revolution and its disastrous effects on the Third World; the industrial world's attempts to control genetic resources of the Third World; threat of biotechnology; biological control of pests; indigenous and natural farming methods that are productive and ecologically sound.

**Title:** Science in Agriculture: The Professional's Edge  
**Author:** Anderson, Arden B.  
**NAL Number:** Q181.A52 1992  
**Annotation:** An overview of the basic sciences farmers need to understand in growing plants, regenerating soil, and providing high quality and nutritious products by curtailing reliance on chemicals. Offers fundamental elements of chemistry, physics, biology, microbiology, testing, planning, programming and management.
Title: Socio-Economic and Policy Issues for Sustainable Farming Systems
Editors: Paoletti, M.G. et al
Publisher: Padova, Italy: Cooperativa Amicizia, 1993. 308 p.
NAL Number: HD1415.S63 1993
Annotation: A collection of papers from a symposium, "Agroecology and Conservation Issues in Temperate and Tropical Regions", held in Padova in 1990. Topics include a discussion of the environmental and economic benefits of sustainable agriculture; biodiversity in agroecosystems; farmer-university participation in sustainable agriculture; intensifying agriculture and protecting the environment in the tropics; implementing sustainable agriculture in developing countries; managing water pollution and soil erosion; research policy on agroecology and the environment; animal husbandry, foraging and the Alpine environment; crop patterns and social tension in India; conversion to low-external-input farming in western Germany.

Title: Soil Biota, Nutrient Cycling, and Farming Systems
Editors: Paoletti, M.G.; W. Foissner; D. Coleman
NAL Number: S589.7.S635 1993
Annotation: Several contributors have provided articles dealing with the influence of microorganisms, invertebrates and plants on agroecosystems. Considers the interaction of biota, soil conditions and pesticide residue; organic matter management; recycling of bio-organic waste; the rate of plant pathogen survival in compost; monitoring soil contaminants for environmental and human health problems; agroforestry systems; weed reduction.

Title: Sustainable Agriculture and Suburban Markets: What's the Connection?
Author: Kitasei, Hilary Hinds
NAL Number: HD9005.K57 1992
Annotation: A booklet that describes results of a consumer survey in upstate New York of how customers select fruits and vegetables in supermarkets. Half the respondents regarded pesticide-free produce as a major consideration. Includes consumers' thoughts about quality and sources of produce; opinions about organic produce, price and availability. Discusses alternative marketing systems such as farmers' markets, buying clubs, cooperatives, "pick your own" farms. Discusses strategies for encouraging sustainable agriculture.

Inquiries may be made to the League of Women Voters of Briarcliff, Ossining, Croton and Cortlandt, P.O. Box 30, Briarcliff Manor, NY 10510.

Title: Sustainable Agriculture and the Environment in the Humid Tropics
Author: Committee on Sustainable Agriculture and the Environment in the Humid Tropics, Board on Agriculture and Board on Science and Technology for International Development, National Research Council
NAL Number: S481.N38 1992
Annotation: Focuses on the loss of rain forests and other environmental resources in tropical countries. Offers ideas for mitigating land degradation and deforestation; promoting food production and economic growth; protecting resources; changing adverse policies. Provides observations on Brazil, Mexico, Indonesia, Malaysia, Philippines, Ivory Coast, and Zaire.

Title: Sustainable Agriculture Development in Asia
NAL Number: S494.5.S86S972 1994
Annotation: Report of an APO study meeting held in Tokyo on Feb. 23 - March 5, 1994. Discusses issues and experiences pertaining to sustainable agriculture development and programs that contribute to environment sensitive techniques and sustainable production systems. Papers include sustainable agriculture in Asian developing countries from an economist's perspective; changes in agrarian structure; development and transfer of environment technology; sustainable agriculture and the alleviation of poverty; sustainable animal production in integrated small farm systems; prospects for sustainable agriculture in Asia. Conditions for sustainable agriculture are described individually for Taiwan, Hong Kong, India, Indonesia, Iran, South Korea, Malaysia, Mongolia, Nepal, Philippines, Sri Lanka, and Thailand.

Title: Sustainable Agriculture for the Asian and Pacific Region
Editor: Bay-Petersen, Jan
Publisher: Taipei, Taiwan: Food and Fertilizer Technology Center for the Asian and Pacific Region (FFTC), 1992. 96 p.
NAL Number: SB177.A75F47 no.44
Annotation: No. 44 in FFTC's book series. Includes papers presented at the 11th meeting of the Center's Technical Advisory Committee held on May 18-24, 1992, at Suweon, South Korea. Focuses on the special characteristics and requirements necessary for the development of sustainable systems in tropical areas. Organic farming is less suitable in the humid tropics because of the rapid breakdown of organic matter and the formidable buildup of pests and pathogens that make disease and pest control more difficult. Deals with the concept of sustainable agriculture; soil management using organic matter with or without chemical fertilizers; developing tropical highlands for agriculture with an emphasis on agroforestry; using biological resources and biotechnology; methods of sustainable agriculture developed in Taiwan that include using natural pesticides such as chili extract.

Title: Sustainable Agriculture in Egypt
Editors: Faris, Mohamed and Mahmood Hasan Khan
NAL Number: S473.E38S98 1993
Annotation: Papers from a conference on the sustainability of Egyptian agriculture held in Alexandria in May 1992. Focuses on environmental, economic, social, cultural, and political features of sustainable development in Egypt. Considers water resource management and policies; rice production; government agricultural policy; small farmer households, women's rights, population dynamics, and other social factors; the political process in Egypt.
Title: Sustainable Agriculture in the American Midwest: Lessons from the Past, Prospects for the Future
Editors: McIsaac, Gregory and William R. Edwards
NAL Number: S441.S97 1994
Annotation: Explores the technical, ecological, and social aspects of sustainable agriculture in the Midwest. Contributors are specialists in agronomy, plant biology, soil science, ecology, entomology, geography, climatology, engineering, economics, and anthropology. Addresses the factors and perceptions that often make it difficult to agree on basic elements of sustainability. Includes discussions on the evolution of concepts and definitions of sustainability; contrasting cultural beliefs; the frequent conflict between indigenous agricultural knowledge and technology and resulting social change; resolution of conflicts that arose from land drainage schemes in the lower Illinois River valley between 1890s-1930; the relationship between wildlife and agricultural production in the Midwest; evaluating the natural ecosystem as a standard for sustainability; defining sustainable cropping systems; the interaction among humans, pests and crops, and the evolution of pest control methods; effects of land use and management on soil erosion and long-term production; impact of future climate patterns on sustainable agriculture; alternative energy sources for agriculture.

Title: Sustainable Agriculture Systems
Editors: Hatfield, J.L. and D.L. Karlen
NAL Number: S494.5.S86S86 1994
Annotation: A collection of articles that examines the components within agricultural systems and how these may be incorporated into sustainable systems. Topics include water conservation, irrigation, decreasing evaporation and transpiration, reducing nripercolation, basic soil testing, plant analyses, rotation, cover crops, nutrient enhancement, soil organic matter, tillage methods, weed and pest management. Also provides a historical perspective and a discussion of economic issues, social changes and future challenges.

Title: Sustainable Development and Sustainable Agriculture: (A Partially Annotated Bibliography With Emphasis on Economics)
Authors: Rosenberg, Elliot and Ludwig M. Eisgruber
NAL Number: Z5863.A35R67 1992

Title: Sustainable Forestry: Philosophy, Science, and Economics
Author: Maser, Chris
Publisher: Delray Beach, FL: St. Lucie Press, 1994. 373 p.
NAL Number: SD387.S87M375 1994
Annotation: Looks at the ecological characteristics of forests and society’s disregard for this natural design in its emphasis on short-term economic expediency. Examines current practices, such as replacing forests with fast-growing tree plantations, and the changes that must be made to secure sustainable forests and forestry. Maintains that special, local and regional interests must resolve current conflicts and come to view forests as a global concern. Defines the premises and elements of ecosystem management.

Title: Sustainable Land Use: A Policy for Sustainable Management and Use of Natural Resources in Developing Countries
NAL Number: HD706.S87 1993
Annotation: Another in a series of publications on sectoral policy issued by the Netherlands Ministry of Foreign Affairs. Briefly reviews Third World agricultural development; causes of soil degradation; effects of agricultural production on the environment. Offers ideas for an integrated approach to management of natural resources; guidelines for sustainable land use; cooperation and aid programs.

Copies are available from the Development Cooperation Information Dept., Ministry of Foreign Affairs, Postbus 20061, 2500 EB The Hague, Netherlands.

Title: Systems Approaches for Improvement in Agriculture and Resource Management
Authors: Wilson, Kathleen and George E.B. Morren Jr.
NAL Number: S540.A2W54
Annotation: Written for students in the agricultural, food, and natural resources sciences as part of a project to create new college-level curricula. Deals with decision making and problem solving in changing environments required of managers in agricultural, food, and related enterprises. Discusses the processes of learning and the various methods of inquiry.

Title: Taxing Pesticides to Fund Research for Sustainable Agriculture: The Iowa Model
NAL Number: HJ5347.18T39 1990
Annotation: A look at 1987 Iowa legislation that imposed a tax on pesticides and nitrogen fertilizers as a means for funding programs and research to help reverse the effects of pesticide use and reduce reliance on synthetic chemicals.

Title: *Technologies for Sustainable Agriculture in the Tropics*
Editors: Ragland, John and Rattan Lal
Publisher: Madison, WI: American Society of Agronomy (ASA); Crop Science Society of America; Soil Science Society of America, 1993. ASA special publication no. 56. 313 p.
NAL Number: 64.9.Am3 no. 56
Annotation: Proceedings of two ASA symposia held in San Antonio in 1990 and Denver in 1991. Examines the constraints, challenges and choices facing sustainable agriculture in developing countries. Stresses that the success of sustainability in these countries depends on the ability to produce substantial wealth. Other topics include linking modern technologies to indigenous farming practices to achieve productive sustainable systems; sustainable development of sloping uplands in southeast Asia and methods for reversing land degradation; agroforestry, nutrient cycling and alley cropping; using Vetiver grass to control soil erosion; employing computer models to aid in decision making; socio-economic considerations, such as economic and policy influences on sustainability and farmer participation in research. Focuses on the problems and strategies for sustainable agriculture in sub-Saharan Africa.

Title: *Technology Policy for Sustainable Agricultural Growth*
NAL Number: HD9000.A1147
Annotation: Briefs presented at a seminar held in The Hague, Netherlands, July 2 and 3, 1990. Discusses the roles of research, investment and economic policies in encouraging the development and use of infrastructure, irrigation, fertilizers, and improved seed varieties.

Title: *The World's Savannas: Economic Driving Forces, Ecological Constraints and Policy Options for Sustainable Land Use*
Editors: Young, M.D. and O.T. Solbrig
NAL Number: GF75.M35 v.12
Annotation: Volume 12 in *Man and the Biosphere* series. Assesses ecological, social and economic constraints and recommends national and international policy changes necessary for sustainable development of tropical savannas. Focuses on Africa, India, Australia, Venezuela, and Brazil in dealing with types of land tenure, grazing systems, and other factors that influence savanna land use.

Title: *Your Organic Garden: With Jeff Cox*
Editors: Editors of Rodale Garden Books
NAL Number: SB453.5.C68 1994
Annotation: The title is taken from Mr. Cox's PBS television series. Provides advice on growing a healthy, chemical-free garden. Contains information on composting and soil care; choosing the right plants; seed and plant propagation; growing guides for fruits, vegetables, and flowers; controlling pests and diseases.
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