

[PDF] Organic Farming Theory And Practices

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Organic Farming—The Irish Case (S O'Reilly et al.)Do Consumers Care About Where They Buy Organic Products? A Means-End Study with Evidence from Italian Data (S Naspetti & R Zanolì)Testing and Validating the LOV Scale of Values in an Organic-Food-Purchase-Context (G M Chrysoschoidis)and other papers Readership: Business management researchers, entrepreneurs and marketers. Keywords:Market Research,Marketing Strategies,Marketing Mix,Purchasing Behavior,Strategic MarketingReviews:“It is an excellent and very dated contribution to the field of marketing organic foods ... A highly recommended book for teaching and research purposes.” Marios Katsioloudes Associate Dean/MBA Director Intercollege, Nicosia, Cyprus ’

Organic Farming Theory & Practice-S.P. Palaniappan 2018-04-01 This book makes an attempt to present the available information on organic agriculture in a cogent and easily understandable manner. Though it is not exhaustive, which it is not meant to be, it is felt that book will give an overview on the subject to the interested reader. A viewpoint on organic agriculture has been presented in the book, based on the experience of the authors. The book contains chapters on organic manures (including green manures), recycling of organic wastes, vermiculture, biofertilizers, organic methods of pest and weed management, integrated nutrient management, farming systems and case studies of organic farming. Selected literature is presented for further reading. A compilation of the available informations has been a felt need of students, teachers, research workers and administrators in agriculture.

Organic Farming-S.P. Palaniappan 1999

Organic Farming : Theory And Practices-Sp. Palaniappan 2008-01-01

Principles of Organic Farming-E. Somasundaram 2019-07-05 Principles of Organic Farming is a practical oriented text to organic crop management that provides background information as well as details of ecology-improving practices.

The Natural Way of Farming-Masanobu Fukuoka 1985 Examines the state of modern agriculture and describes organic no-tillage agricultural techniques based on the interrelatedness of all nature

Glossary of Terms in Crop Production-S. Ramamoorthy 2004-05-01 Agronomy deals with the principles and practices of crop production and soil management. In its broader sense, it includes crop ecology, crop production, crop nutrition, soil fertility, water management, weed control, seed technology etc. To be a good agronomist, one needs to have a sound knowledge of all these agronomic aspects as also some related aspects from other sciences. The task of selecting the terms to be included in any branch of science offers many difficulties particularly in Agronomy, which draws upon from several diverse fields of agriculture. How far, it is advisable to include terms from those over lapping science which lie on the borderline is a question on which no two people might think alike. A compilation of available information has been a felt need of students, teachers, research workers and administrators in Agronomy. This book makes an attempt to present the available information on Agronomy in an easily understandable manner. It would be useful not only to graduate and post graduate students and those appearing in the competitive examinations, but also to the teachers and researchers of the Agricultural Universities / research organizations.

Ecojustice Adult Education: Theory and Practice in the Cultivation of the Cultural Commons-Audrey M. Dentith 2017-04-17 As ecological issues increase and concern worldwide is mounting about the changing nature of work and cultural life, the field of adult education holds much potential for its ability to highlight cultural knowledge, promote change, and maximize the capacity of adults to work together in strengthening mutually supportive communities that contribute to a sustainable future. It is imperative that we (re)educate adults about productive but sustainable work and stronger local community living within an understanding of the relational being and the interdependency of all things. This edited collection explores the cultural roots of the ecological/cultural crisis and its relationship to adult education. The development of sound practices and new cultural understandings among adults are emphasized. Certainly, there exists evidence of small grassroots work that builds hope and skills for the coming of a new age of sustainable and just life. This volume discusses the: Connections between sustainability, environmental and ecojustice education, Forms of radical sustainability adult education, Established cultural institutions as potential agents of change, Principles of ecojustice education, and Implementation of these principles in formal and community education settings. This is the 153rd volume of the Jossey Bass series New Directions for Adult and Continuing Education. Noted for its depth of coverage, it explores issues of common interest to instructors, administrators, counselors, and policymakers in a broad range of education settings, such as colleges and universities, extension programs, businesses, libraries, and museums.

Contract Farming: Theory And Practice-Erkan Rehber 2007-05-11 Nowadays, agricultural-food system has been experiencing major changes which are driven mainly by recent developments in consumer preferences and attitudes, technological improvements, food safety issues and related regulations. The advanced agro-food sec

Organic Futures-Adrian Myers 2005 Presenting an overwhelming argument for replacing modern farming methods with organic techniques, this book explores the history, politics, and practicalities of organic farming. Adrian Myers shows how the current techniques of agriculture and horticulture based on chemical fertilizers, which inevitably bring about the deterioration of soil life, cannot provide a long-term sustainable future for humankind. "Organic Futures" shows what we can learn from 4,000 years of sustainable organic agriculture in the Far East and explains how organic farming is different from conventional agriculture. It demonstrates the damaging effects of conventional farming and discusses the importance of maintaining soil fertility. Presenting a vision of an organic future, the book also documents inspiring developments in both the West and the Third World.

Principles of Organic Farming: Textbook-P. L. Maliwal 2020-01-10 The book "Principles of Organic Farming: Textbook" has been designed to fulfill the requirement of undergraduate students of agriculture faculty considering the syllabus of 5th Dean's committee of ICAR. This book makes an attempt to present the available information on organic agriculture in a very simple and lucid language based on the experience of the author. The book contains chapters on an introduction to organic farming, promotion of organic agriculture in India, organic ecosystems and their concepts, organic nutrients resources and their management, insect pests and disease management in organic farming, weed management in organic farming, organic crop production, certification process and standards of organic farming in India, processing and labelling of organic produce, economic viability of organic farming, marketing and export potential of organic products.

Organic Farming-Hari Ram Prajapati 2020-09-15 Organic farming has experienced steady growth in terms of production, number of growers, area under cultivation and rise in use of organic inputs across India and Asia in general in recent times. It has gradually emerged as a viable substitute for the high-cost, high-polluting mechanized farming prevalent in many parts of the world, including India. This book starts with an extensive description of the economics of organic farming. Food products are grown by two groups—conventional growers, who target the mass market, and organic growers who target either the 'niche urban market' or the worldwide export market. The demand for major organic food items such as milk, meat, eggs and dairy products is growing rapidly in national urban and international markets. On the other hand, the conventional grower has a large share of both national and international markets. The book clearly differentiates between the economics of these two product and farming types. The book closely analyses why some Indian states are doing better than others and why some countries are doing better than others in Asia in organic farming. It describes the state-wise growth of the organic market in India as a result of the proactive policies and actions of states which are more successful than others. The book also presents exhaustively the international organic farming rules and regulations based on four principles—health, ecology, fairness and care, which constitute the basis for the formulation of rules and regulations by all countries, which in turn further enable the expansion and development of organic farming along scientific and democratic lines.

Practice and Theory of Advanced Training Courses in Alternative Agriculture-F. Oudshoorn 1985

Weed Management for Organic Farmers, Growers and Smallholders-Gareth Davies 2008 This well researched book covers all aspects of organic weed management. It is essential reading, not only for organic farmers, growers, and smallholders, but also for organic advisers and consultants, agricultural students and all those who have an interest in weed management theory and practice in organic farming systems.

Organic Agriculture-Shaon Kumar Das 2020-12-02 Organic crop production is the science and art of growing field crops, fruits, vegetables, and flowers by adopting the essential principles of organic agriculture in soil building and conservation, pest management, and heirloom variety conservation. This book provides detailed insights into organic farming in agriculture, biological efficacy in the management of plant diseases, organic nutrient management, socio-economic dimensions of adoption of conservation practices, nonchemical weed control, plant growth promoting fungi for phytostimulation, nanotechnological approaches, and finally vermicomposting. The book primarily focuses on research and development based organic agriculture and horticulture production technologies, and has attempted to abridge information on organic crop production of the major food grain crops. The book also contains comprehensive information on the various related dimensions of organic crop production.

Potato Breeding: Theory and Practice-John E. Bradshaw 2021 The potato (*Solanum tuberosum*) is the world's fourth most important food crop after maize, rice and wheat with 377 million tonnes fresh-weight of tubers produced in 2016 from 19.2 million hectares of land, in 163 countries, giving a global average yield of 19.6 t ha-1 (<http://faostat.fao.org>). About 62% of production (234 million tonnes) was in Asia (191), Africa (25) and Latin America (18) as a result of steady increases in recent years, particularly in China and India. As a major food crop, the potato has an important role to play in the United Nations "2030 Agenda for Sustainable Development" which started on 1 January 2016 (<http://faostat.fao.org>). By 2030 the aim is to "ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round". By then, the world population is expected to reach 8.5 billion and continue to increase to 9.7 billion in 2050. For potatoes, the need is to increase production and improve nutritional value during a period of climate change, a key aspect of which will be the breeding of new cultivars for a wide range of target environments and consumers. The aim of the book is to help this endeavour by providing detailed information in three parts on both the theory and practice of potato breeding. Part I deals with the history of potato improvement and with potato genetics. Part II deals with breeding objectives, divided into improving yield, quality traits and resistance to the most important diseases and pests of potatoes. Part III deals with breeding methods: first, the use of landraces and wild relatives of potato in introgression breeding, base broadening and population improvement; second, breeding clonally propagated cultivars as a way to deliver potato improvement to farmers' fields; third, as an alternative, breeding potato cultivars for propagation through true potato seed; and fourth, gene editing and genetic transformation as ways of making further improvements to already successful and widely grown cultivars. Included are marker-assisted introgression and selection of specific alleles, genomic selection of many unspecified alleles and diploid F1 hybrid breeding.

Organic Farming for Sustainable Horticulture-P. Parvatha Reddy 2012-06-01 Horticulture is fast emerging as a major commercial venture, because of higher remuneration per unit area and the realization that consumption of fruits and vegetables is essential for health and nutrition. In the last one decade, export potential of horticultural crops has significantly increased attracting even multinationals into floriculture, processing and value added products. Since the horticultural produce especially fruits and vegetables are consumed afresh, consumers expect residue-free produce. In modern society where consumers are becoming increasingly health conscious and environmentally aware, a major market for organic foods has developed. The organic sector, in particular, has sprung back into life to become one of the most dynamic sectors in the international food market. The present book is an attempt which comprehensively deals with both principles and practices. It is divided into two parts. The first part deals with the principles of organic farming covering aspects such as enrichment of soil with organic matter, cropping systems, bio-fertilizers, weed management and pest management. The second part of the book deals with package of practice for organic farming in fruits, vegetables, ornamentals, medicinal, aromatic, plantation, spice and tuber crops. Three aspects, namely - nutrient management, weed management and pest management are dealt with separately for each crop. An entire chapter is devoted for sources of critical inputs used for organic farming which would be very much useful to the organic farmers to procure the same. This book is a practical guide to practicing organic farmers of horticulture crops. Further, it is a useful reference to policy makers, research workers and students. The material can also be used for teaching undergraduate and post-graduate courses.

Organic Production and Use of Alternative Crops-Franc Bavec 2006-07-20 Merging coverage of two increasingly popular and quickly growing food trends, Organic Production and Use of Alternative Crops provides an overview of the basic principles of organic agriculture and highlights its multifunctionality with special emphasis on the conservation of rare crops and their uses. Considering more than 30 disregarded and neglected crops suitable for growth in temperate climates, each chapter covers the botany, climate conditions, cultivars, production and yield, growth and ecology, organic cultivation, harvesting, handling and storage, and utilization where the information is available and applicable to the crop under discussion. Other topics include organic production systems, the nutritional and health benefits of products, food processing, and suggestions for some homemade foods. The authors have a wide range of experience in the growing and processing of alternative crops, the management of the processing projects, and the marketing of organic products. They have worked in close cooperation with many small scale processing activities on farms and in the food industry. Drawing on their combined experience, they provide a summary of the major problems and the knowledge base for utilization of alternative crops in new products. The broad range of coverage and interdisciplinary approach make this book a comprehensive reference and useful tool not only for the production of alternative crops but also for the development of new niche market products.

ORGANIC AGRICULTURE IN UZBEKISTAN-Food and Agriculture Organization of the United Nations 2018-07-18 This book was prepared under the framework of TCP/UZB/3501: Institutional capacity building to develop organic agriculture and to promote good agriculture practices in Uzbekistan to provide guidance to the stakeholders. This book brings together the status of organic agriculture in Uzbekistan including, market, legal standards, methods, experiences and useful methods and basic information that can be of immediate use for identifying problems and for formulating, executing and evaluating actions so as to benefit and improve organic production. The publication can also serve as a reference that will allow researchers, specialists and farmers to discover jointly, ways to adopt organic agriculture practices and solve the problems and the limitations created by traditional agriculture. This book is meant for researchers, agricultural specialists, extension personnel as well as farmers, and deals with the management and conservation of agricultural land. It is hoped that the Book will help to attain the ultimate objective of increasing quality of agricultural products and improving the productivity of the soils and water in a rapid, efficient and sustainable.

Practical Manual on Basic Agronomy (With Theory) 2nd Revised Ed.-N.R. Das 2017-10-01 This book has been written in short, as a 'practical text book' in Agronomy subject, based on theoretical background, for thorough knowledge of that subject, after a long teaching experience in the universities. Practical classes, with lesson numbers have been fitted, immediately after theoretical discussions, in different sub-chapters in Chapters, on the same studies. The lesson, has been divided into 'Introduction', 'Objective', 'Materials required' & 'Procedure'. In some cases, 'assignments' have also been given.

Organic Farming for Sustainable Livelihoods in Developing Countries?-Frank Eyhorn 2007

ORGANIC AGRICULTURE-J. C. Tarafdar 2012-01-01 The purpose of this book is to draw attention to the ill-health of the soil; to indicate some of the consequences of this; to suggest method by which the lost fertility could be restored and to enlist research findings to utilize in making farm products as well as farm resources free

Organic Farming—The Irish Case (S O'Reilly et al.)Do Consumers Care About Where They Buy Organic Products? A Means-End Study with Evidence from Italian Data (S Naspetti & R Zanolì)Testing and Validating the LOV Scale of Values in an Organic-Food-Purchase-Context (G M Chrysoschoidis)and other papers Readership: Business management researchers, entrepreneurs and marketers. Keywords:Market Research,Marketing Strategies,Marketing Mix,Purchasing Behavior,Strategic MarketingReviews:“It is an excellent and very dated contribution to the field of marketing organic foods ... A highly recommended book for teaching and research purposes.” Marios Katsioloudes Associate Dean/MBA Director Intercollege, Nicosia, Cyprus ’

Food Consumption in the City-Marylene Sahakian 2016-10-04 Food consumption patterns and practices are rapidly changing in Asia and the Pacific, and nowhere are these changes more striking than in urban areas. This book brings together scholars from anthropology, sociology, environmental studies, tourism, architecture and development studies to provide a comprehensive examination of food consumption trends in the cities of Asia and the Pacific, including household food consumption, eating out and food waste. The chapters cover different scales of analysis, from household research to national data, and combine different methodologies and approaches, from quantifiable data that show how much people consume to qualitative findings that reveal how and why consumption takes place in urban settings. Detailed case studies are included from China, India, Japan, Malaysia, Philippines, South Korea and Vietnam, as well as Hawaii and Australia. The book makes a timely contribution to current debates on the challenges and opportunities for socially just and environmentally sound food consumption in urbanizing Asia and the Pacific. Chapter 3 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution-Non Commercial-No Derivatives 3.0 https://s3-us-west-2.amazonaws.com/tandfbis/rt-files/docs/Open+Access+Chapters/9781138120617_0achapter3.pdf

Sustainable Agriculture-Suhail A. Bandh 2021-10-20 This book discusses a number of recent technological and methodological progressions in achieving sustainable agriculture. It covers innovative and economically viable techniques for growers, laborers, consumers, policymakers, and others working to develop food-secure and ecologically sound agricultural practices to benefit humans and the environment. The key topics addressed include the increasing role of biofertilizers in sustainable agriculture, green synthesized nanoparticles for higher crop production rates, eco-friendly plant-based pesticides as alternatives to synthetic/chemical pesticides, use of genomics for improved plant breeding practices, and the use of biochar to increase the water-holding capacity in soil. The book concludes with an overview of satellite-based soil erosion practices to monitor and control the harmful impacts of land degradation, and a discussion of long-term strategies to reduce crop losses due to pest and insecticide damage. The book will be of interest to students and researchers in the field of environmental science, agriculture science, agronomy, and sustainable development.

Ecojustice Adult Education: Theory and Practice in the Cultivation of the Cultural Commons-Audrey M. Dentith 2017-03-31 As ecological issues increase and concern worldwide is mounting about the changing nature of work and cultural life, the field of adult education must respond. Adult education holds much potential for its ability to highlight cultural knowledge, promote change, and maximize the capacity of adults to work together in strengthening mutually supportive communities that contribute to a sustainable future. It is imperative that we (re)educate adults about productive but sustainable work and stronger local community living within an understanding of the relational being and the interdependency of all things. This edited collection explores the cultural roots of the ecological/cultural crisis and its relationship to adult education. The development of sound practices and new cultural understandings among adults are emphasized. Certainly, there exists evidence of small grassroots work that builds hope and skills for the coming of a new age of sustainable and just life. This volume discusses the: Connections between sustainability, environmental and ecojustice education, Forms of radical sustainability adult education, Established cultural institutions as potential agents of change, Principles of ecojustice education, and Implementation of these principles in formal and community education settings. This is the 153rd volume of the Jossey Bass series New Directions for Adult and Continuing Education. Noted for its depth of coverage, it explores issues of common interest to instructors, administrators, counselors, and policymakers in a broad range of education settings, such as colleges and universities, extension programs, businesses, libraries, and museums.

Crop Management-Walia, U.S. 2015-06-04 The book covers basic but very comprehensive information on history of agriculture and relationship of Agronomy with other disciplines, tillage practices, nutrient elements for plant growth, weeds and their management, irrigation management, crop physiology, crop ecology, integrated farming system and organic farming.

21st Century Homestead: Organic Farming-Lamont Fedigan 2015-02-21 21st Century Homestead: Organic Farming contains everything you need to stay up to date on organic farming.

Nofa Guides-Northeast Organic Farming Association 2011-04-26 A series of eight guides originally published by NOFA (Northeast Organic Farming Association) on organic principles and practices for both the beginner farmer as well as established farmers looking to convert to organic or deepen their practices. Each book is approximately 100 pages, but the information is weighty; the guides use a strong whole-systems farming theory behind their practical advice, as well as offer historical information, further resources, detailed appendices, and profiles of various organic farms across the Northeast. Titles include: Organic Weed and Soil Fertility Management by Steve Gilman (approx 104 pp) Soil Resiliency and Health: Crop Rotation and Cover Cropping on the Organic Farm by Seth Kroeck (96 pp) Compost, Vermicompost, and Compost Tea by Grace Gershuny (96 pp) Vegetable Crop Health: Helping Nature Control Diseases and Pests Organically by Brian Caldwell (96 pp) Organic Dairy Production by Sarah Flack (96) The Wisdom of Plant Heritage: Organic Seed Production and Saving by Bryan Connolly (112 pp) Whole Farm Planning: Ecological Imperatives, Personal Values, and Economics by Elizabeth Henderson and Karl North (96 pp) Humane and Healthy Poultry Production: A Manual for Organic Growers by Karma Glos (104 pp)

Global Development of Organic Agriculture-Niels Halberg 2006-01-01 Agriculture and food systems, including organic agriculture, are undergoing a technological and structural modernization strongly influenced by growing globalization. Organic agricultural movements can be seen as a tangible effort towards more sustainable development. However, there are large differences between, on the one hand, industrialized farming and consumption based on global food chains and, on the other, smallholder farmers and resource poor people primarily linked in local food markets in low-income countries. This book provides an overview of the potential role of organic agriculture in a global perspective. The book discusses in-depth political ecology, ecological justice, ecological economics and free trade with new insights on the challenges for organic agriculture. This is followed by the potential role of organic agriculture for improving soil fertility, nutrient cycling and food security and reducing veterinary medicine use, together with discussions of research needs and the importance of non-certified organic agriculture.

Fundamentals of Soil Science-R.L. Arya 2020-01-14 Soil science is a specialized branch of agriculture which associated with the different areas of soil pedology, soil physics, soil chemistry, soil biology, soil fertility, plant nutrition etc. It is, therefore, worthwhile to understand the nature and behavior of natural resources for sustainable agricultural production. Fundamentals of Soil Science assembles and summarizes pertinent available information for the students of agriculture in general and soil science in particular. This text book is a comprehensive more and will meet the growing need of soil science of graduate and post graduate students at university level agricultural education. This book covers the course contents of competitive examinations like IAS, IFS, PCS, ARS, banking services, B.Sc./M.Sc./Ph D. (Ag) admission, states and national levels of different competitive examinations in agriculture. The entire book is prepared in most simple, clear, talking language, comprehensive and short descriptive type of questions so that the concept could be easily understand by the readers in short times.

Principles of Sustainable Soil Management in Agroecosystems-Rattan Lal 2013-06-10 With the use of high-level soil management technology, Africa could feed several billion people, yet food production has generally stagnated since the 1960s. No matter how powerful the seed technology, the seedling emerging from it can flourish only in a healthy soil. Accordingly, crop yields in Africa, South Asia, and the Caribbean could be double

Principles of Organic Farming-S.R Reddy 2017 Farming system and sustainable agriculture covers all the topics specified in the syllabus by the ICAR. Importance, types of farming system, components of farming system, evaluation of cropping system and allied enterprises, sustainable agriculture, conservation agriculture and integrated farming system.

Soil-Water Engineering Field and Laboratory Manual-T.J. Trout 2012-08-08 The manual has been written based on a series supplied to participants in a workshop titled "Diagnostic Analysis of Farm Irrigation System". The main purpose of this manual is to provide the student with basic measurement procedures, suitable for the laboratory and field, for conducting field studies of farm irrigation systems. This manual should be used as a reference for correct laboratory and field measurement procedures. It can be used as a valuable reference by the personnel conducting actual field studies of irrigation systems. The equipments list for each exercise are for determining equipment needs for planning the field study or a workshop. The analysis and discussion suggestions are appropriate for the data collected during the

from chemical pollution. This book provides an overall review of different tools for organic agriculture followed by discussions on sustainability.

Tree Crops-Kodoth Prabhakaran Nair 2020-12-10 This book paints a wide canvas of the immense global economic potential of ten most important cash generating crops spread over Asia, Africa and Latin America, namely, Arecanut, Cashew Nut, Coconut, Cinchona, Cocoa, Coffee, Tea, Oil Palm, Rubber and Wattle. It provides a cross-sectional, multi-scale assessment of the status of these crops, from seed to dining table, an invaluable treatise on the subject. Structured to be an invaluable tool for the inquisitive researcher, an ardent student, and, an insightful policy maker.

Sustainable Water Management in Smallholder Farming-Sara Finley 2016-07-27 Water is critical to all human activities, but access to this crucial resource is increasingly limited by competition and the effects of climate change. In agriculture, water management is key to ensuring good and sustained crop yields, maintaining soil health, and safeguarding the long-term viability of the land. Water management is especially challenging on smallholder farms in resource-poor areas, which tend to be primarily rainfed and thus highly dependent on unreliable rainfall patterns. Sustainable practices can help farmers promote the development of soils, plants and field surfaces to allow maximum retention of water between rains, and encourage the efficient use of each drop of water applied as irrigation. Especially useful for farmers' groups, agricultural extension workers, NGOs, students and researchers working with farmers in dryland areas, this comprehensive yet concise book is a practical and accessible resource for anyone interested in sustainable water management.

Fundamentals of Agronomy-R.L. Arya 2020-01-15 Agronomy is an important branch of agriculture which associated with the different aspect of tillage, crop production, seed and sowing, irrigation and weed management, plant nutrition, dryland/rainfed agriculture, growth and development etc. 'Fundamentals of Agronomy' have been carefully designed to promote better understanding and encourage creativity and will meet the growing need of agronomy of graduate and post graduate students at university level agricultural education. The entire book is prepared in most simple, clear, talking language, comprehensive and short descriptive type of questions so that the concept could be easily understand by the readers in short times. Fundamental of Agronomy covers the course contents of competitive examinations like IAS, IFS, PCS, ARS, banking services, B.Sc./M.Sc./Ph.D. (Ag) admission, state and national levels of different competitive examinations in agriculture.

Organic Coffee-Maria Elena Martínez-Torres 2006 Despite deepening poverty and environmental degradation throughout rural Latin America, Mayan peasant farmers in Chiapas, Mexico, are creating an environmental and economic success by growing organic coffee. Organic Coffee: Sustainable Development by Mayan Farmers provides a unique and vivid insight into how this coffee is grown, harvested, processed, and marketed to consumers in the North. Maria Elena Martínez-Torres explains how Mayan farmers have capitalized on their ethnic networks to make a crucial difference in their approach to agriculture. Taking us inside Chiapas, Mexico's poorest state, scene of the 1994 Zapatista uprising, she examines the anatomy of the on-going organic coffee boom and the effects of the free-trade movement. The energy behind this phenomenon arises from very poor farmers forming cooperatives, revaluing their ethnic identity, and adding value to their land through organic farming. The result has been significant economic benefits for their families and ecological benefits for the future sustainability of agriculture in the region. Martínez-Torres explodes the myth that organic farming is less productive than chemical-based agriculture, and gives us reasons to be hopeful for indigenous peoples and peasant farmers. Organic Coffee ultimately shows how sustainable agriculture at the production end can make the coffee commodity chain into a tool for bettering lives and ecologies in poor regions of the world. ABOUT THE AUTHOR--Maria Elena Martínez-Torres is from Mexico and is Global Alternatives Associate at the Center for the Study of the Americas (CENSA) in Berkeley, California. She is director of Desarrollo Alternativo, AC, a non-profit organization in Mexico that works towards alternative, sustainable development practices.

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study. It is hoped that the manual will serve as a useful guide for the field as well as laboratory. It can be used as a general reference manual by all researchers involved in field and workshop.

Ecology Workbook - R. Misra The workbook is based on the concept of ecosystem, the structural and functional unit of ecology. The main contention of the author to provide better understanding and evaluation of the flow of energy and cycling of water and minerals to the three major plant ecosystems viz. grass, forest and freshwater. The exercises are given separately for each of the three ecosystems. During their exercise they are likely to reveal the biological basis of organic productivity. The exercise presented in the workbook will lead to better comprehension of the concept of ecosystems. First practice of the exercise on grassland and the

laboratory which is likely to equip the worker with knowledge and confidence to move on to the forest or the freshwater areas for study. The other corresponding topics of the three ecosystems has the advantage of comparing and bringing the structural and functional differences between the ecosystems. The work book is useful for under graduates, post graduate students and researcher of Ecology, Botany, Zoology and Environmental Studies.