**Food Gardens for a Changing World:**
* A resource for growing food for healthy people, communities and ecosystems.

x1, 313 pages, 104 figures, 36 tables, fully referenced, indexed.

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- HB | 9781789240986 | £95.00 €125.00 $160.00
- 10% discount on line, 20% discount [with flier](#).
- Buy on line at [Fishpond](#).
- Preview Introduction and Chapter 1 [on Amazon](#).
- Author [blog at CABI](#) provides more detailed description.

### Synopsis

*Food Gardens for a Changing World* is a unique resource for students, researchers, and policymakers, as well as household, community and school gardeners, and activists who want to understand the potential of food gardens in a rapidly changing world. This book focuses on the 21st century trends bringing new challenges to food gardening—the global climate crisis, environmental degradation, resource scarcity, and social diversity and inequity—explaining the basic biological, ecological and social concepts needed to understand them. Examples throughout the text demonstrate how to use these concepts to respond successfully to those trends.

**Key features:**
- An explanation of the new challenges that major environmental, climate and social trends are bringing to food gardens and gardeners.
- Worked examples demonstrate how garden observation and experimentation can help determine best options for responding to change.
- Chapters cover management of garden location, plants, pests & pathogens, water, soil, and seeds, as part of human and environmental communities.
- An open, accessible style, over 100 graphs and illustrations, and evidence-based, well-referenced explanations and examples help readers understand and find further information.
- Examples show how the basic concepts can be adapted for different circumstances, often using a community science approach, and focusing on hotter, drier areas, especially the western US, but relevant worldwide.
- Application of these concepts is guided by a framework of five key ideas based on research in the natural and social sciences. That framework supports the goals of minimizing harm to the environment, mitigating and adapting to climate, environmental and social change, and strengthening prosocial strategies that support gardener-scientist collaboration, and food and climate justice.
Authors

Daniela Soleri (University of California, Santa Barbara, and The Center for People, Food & Environment) is an ethnoecologist whose research is on local and scientific knowledge systems in small scale agriculture and gardens. This includes quantifying farmer practices, documenting risk assessment and cultural identity related to seeds, and investigating new semi-formal seed systems.

David A. Cleveland (University of California, Santa Barbara, and The Center for People, Food & Environment) is a human ecologist who has done research and development project work on sustainable agrifood systems with small-scale farmers and gardeners around the world. His current focus is the role of local food systems and diets in climate change, nutrition, and food sovereignty.

Steven E. Smith (University of Arizona) is a plant breeder, botanist and statistician whose research, training of students, and teaching cover those areas of expertise. His research interests reflect both his training in application-oriented plant breeding and his fascination with plant survival in natural plant communities in arid environments.

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Observe, test, learn, adapt: a culture of respect for empiricism may be what we most need to grow in our gardens and food systems—the front lines of humanity’s survival in a changing climate. This book is a resource for communities to take charge of their gardening through experimentation, and for scientists to adjust their practices towards transparency and mutual respect. The readable concepts and examples provided show how to equitably partner across formal science and informal garden institutions, and collaborate to produce and use diverse knowledge—essential for improving our individual and collective capacity to change.

Liz Barry, Director of Community Development, Public Lab, USA (Public Laboratory for Open Technology and Science).

The unique contribution of Food Gardens for a Changing World is to combine findings from the natural and the social sciences to allow us to understand better the new challenges food gardening faces. For growing food is not just a matter of maintaining healthy soils and cultivating the plant: it is also about strengthening links with others, co-finding solutions with scientists, and ultimately, by reconnecting with nature, healing communities.

Olivier De Schutter, LL.M., Ph.D., former United Nations Special Rapporteur on the Right to Food (2008-2014), co-chair of the International Panel of Experts on Sustainable Food Systems, Belgium (IPES-Food); Professor, Catholic U of Louvain and Sciences Po Paris.

After perusing Food Gardens for a Changing World, I decided to use it as one of the required readings for my non-majors “California Cornucopia” course. The typical student is a last-quarter Senior who has put off their science class until the end of their career. This is a last chance to de-toxify science for non-scientists about to enter their career path. Therefore, the course is broad, but necessarily spotty—using California crops and their products to teach the basics of cell biology, ecosystem science, evolution, genetics, and the interaction of science and all aspects of sustainability. Using this book will give me the opportunity to make sure that every aspect of the science of growing plants—including their connection to health and sustainability—is covered in a straightforward way. I especially like how the science is interwoven with practicality. The price of the paperback brings it within the budget of most undergraduates. Students will find the accessible prose and lively artwork a surprising comfort for a science book.

Norman C. Ellstrand, Ph.D., Distinguished Professor of Genetics, Jane S. Johnson Endowed Chair in Food and Agriculture, Founder & Director, CAFE (California Agriculture + Food Enterprise), University of California, Riverside, USA.

Food Gardens for a Changing World is a rich and comprehensive resource written by thoughtful, creative scientists in service to gardeners and small-scale farmers. It weaves prosocial culture, scientific documentation, best garden practices, botanical basics for seed savers, and a big picture look at challenges for food production that have already arrived with increasing global temperatures of climate change. Reference lists encompassing the breadth of ideas presented are extensive for every chapter.

I love how this book builds on its five key ideas and layers foundational “beginner mind” concepts, highly complex systems thinking, scientific studies and models, genetic considerations for gardeners, how gardening affects diet, exercise and mental state, and the art of amateur observation with citizen science. This tapestry
includes vibrant color and texture threads of community interactions and cooperation, friendly conversations about growing our own food while sharing earth’s precious resources, and sharing favorite recipes.

As a seed saver and seed activist, I found Part III on Garden Management to be especially engaging, capturing my full attention on details that brought new perspectives for consideration. The authors have successfully collaged their individual backgrounds and fields of interest. I highly recommend *Food Gardens for a Changing World* to all gardeners everywhere to encourage deeper understanding of prosocial actions and thinking that promote knowledgeable, equitable, culturally relevant, and delicious dinners for their communities and for future generations.

**Elizabeth Johnson**, artist and seed steward, *San Luis Obispo Seed Exchange, USA.*

What can one do to live more pleasurably and sustainably in this period of rapidly changing social and ecological circumstances? This stimulating and inspiring—yet practical—book suggests that you put some seeds in the ground and learn to nourish your plants, your place, your body, and your mind. Beginners will find the book an effective guide to taking the first steps into establishing and maintaining a rewarding garden. Experienced gardeners will discover a wealth of information about the scientific underpinnings of their practice and how they can adjust to a changing environment.

**Jack R. Kloppenburg, Jr.,** Ph.D., Professor Emeritus, *University of Wisconsin-Madison, USA,* Secretary, Open Source Seed Initiative.

*Food Gardens for a Changing World* is a gardening book for gardeners who seek to interrogate their efforts in the larger global context while still attending to the intimate considerations of what makes the garden grow. It is a book for home and community gardeners who have moved beyond the seductive images of strawberries and kale that embellish the typical garden book and instead seek to study their gardens, reflect on their significance amid global and local change, and improve their garden’s productivity while enriching their personal experience. *Food Gardens for a Changing World* is encyclopedic in its breadth of information and provides rich references and bibliographic information to encourage further research. Community gardeners and their supporting institutions will find this book a must-have for guidance in environmentally friendly, socially equitable production and documentation of community gardens’ benefits. This book will undoubtedly be the ‘go to’ book on any inquisitive gardener’s bookshelf.

**Laura J. Lawson**, Ph.D., Dean of Academic Programs, Professor of Landscape Architecture School of Environmental and Biological Sciences, *Rutgers University, USA.*

Food Gardens for a Changing World will be of broad interest to academics, students, and gardeners who want to know more about how gardens function both ecologically and socially. It will be especially useful here in Australia, where the effects of climate change are increasingly being felt. The authors provide support for gardeners to go out and run their own experiments to better understand the processes happening above and belowground in their garden plots. Readers will enjoy the beautiful drawings that help elucidate all the wonderful ways people use and explore their gardens.

**Brenda Lin**, Ph.D., Research Scientist, *CSIRO, Australia.*

This engaging book is a must-have resource for anyone involved or interested in small-scale food production, from gardeners to instructors to entrepreneurs to community empowerment programs. Based on the latest research in multiple academic fields, the authors provide up-to-date and thoughtful guidance on how to think about, create, maintain and benefit from gardens in different environments and changing climates. Look here for answers to all your questions: How can gardens combat greenhouse gas emissions? How do plants take up soil nutrients? Should I consume organic or non-organic fruit? What vital social and cultural resources are provided by community gardens? How does eating a cookie compare nutritionally with an apricot? How do
gardens improve mental and physical health? Why and how do bees and other insects pollinate crops? How much of my family's budget can I save if I grow my own? *Food Gardens for a Changing World* provides comprehensive, detailed yet contextual information across the biophysical, ecological, agronomic, social, economic, and political aspects of locally-grown produce.

Deborah K. Letourneau, Ph.D., Professor Emerita, Department of Environmental Studies, University of California, Santa Cruz, USA.

*Food Gardens for a Changing World* compiles a large volume of information about how gardens can serve as a system for understanding people's connection with productive landscapes and how these settings are so much more than just a piece of land to grow food. Through scores of examples, the authors stitch together a compelling case for how and why these parcels of land serve as a microcosm for healthy, active, and sustainable lifestyles and social and emotional wellbeing, and that these nodes are part of broader food networks and thus have the potential to ignite system level changes. Importantly, *Food Gardens for a Changing World* nicely balances the presentation of scientific evidence supporting gardens as a social, health, and ecological resource, with practical information about the art and science of gardening under rapidly changing environmental and social conditions.

Jill S. Litt, Ph.D., Associate Professor, University of Colorado, Boulder, USA, Associated Researcher, ISGlobal, Spain (Barcelona Institute for Global Health).

There is so much I like about this book. It's organized like a text book and reference book, but reads like a conversation with a wise and trusted friend. It is full of useful, practical tips and resources—especially for people who are interested in adapting their gardening to changing conditions. It connects the dots between local gardens and global issues like climate change, social and environmental justice, public health and nutrition. It helped me see how gardens could be expressions of the things I value—science, nature, cooperation, traditional knowledge, ingenuity, compassion—and how gardens can be part of systemic change. Most of all, it made me want to get outside, dig in the dirt, and collect and analyze data.

Raj Pandya, Ph.D., Director, Thriving Earth Exchange, American Geophysical Union, USA.

This book is a great defense of the garden. It helps us understand why gardens are important and how they fit in the world, and how we as gardeners, researchers and citizen scientists can have impact and give direction in an uncertain future. It combines all and more of the research I have ever done about gardens and their connections. Nice to have it all in one place. I applaud the authors' work.

Hillie Salo, UCCE Master Gardener, Founder of Silicon Valley Grows and One Seed One Community, California, USA.

As someone who has a thoroughly dog-eared printout of Cleveland and Soleri's *Food from Dryland Gardens* on my shelf, I was thrilled to get a chance to read their newest book, *Food Gardens for a Changing World*, written with Steven Smith. I was not disappointed. The authors have distilled their academic knowledge and the wealth of experience they've gained from years working in the hot fields of Mexico and the Southwest into a comprehensive, practical guide to all aspects of growing food on our increasingly erratic planet. The brilliantly illustrated mini-guides to topics ranging from disease diagnosis to transplanting to calculating the effects of shade are worth the price alone. As a seed system advocate, I found their chapter on seed to be very comprehensive, covering not just the practical aspects of seed saving, but touching on plant breeding and the larger issues of genetic conservation and seed privatization as well. Buy this book if you want to understand how food will be grown 10, 20, 50 years in the future.

Jared Zystro, Ph.D., Research and Education Assistant Director, Organic Seed Alliance, USA.