

Teaming With Nutrients The Organic Gardeneraerautms Guide To Optimizing Plant Nutrition Science For Gardeners

Principles and farm-tested practices for no-till market gardening—for healthier, more productive soil!
From the host of the popular The No-Till Market Garden Podcast—heard around the world with over 850k downloads! Discovering how to meet the soil’s needs is the key task for every market gardener. In this comprehensive guide, Farmer Jesse Frost shares all he has learned through experience and experimentation with no-till practices on his home farm in Kentucky and from interviews and visits with highly successful market gardeners in his role as host of The No-Till Market Garden Podcast. The Living Soil Handbook is centered around the three basic principles of no-till market gardening: Disturb the soil as little as possible Keep it covered as much as possible Keep it planted as much as possible. Farmer Jesse then guides readers in applying those principles to their own garden environment, with their own materials, to meet their own goals. Beginning with an exploration of the importance of photosynthesis to living soil, Jesse provides in-depth information on: Turning over the soil Using compost and much Path management Incorporating biology, maintaining fertility Cover cropping Diversifying plantings through intercropping Production methods for seven major crops Throughout, the book emphasizes practical information on all the best tools and practices for growers who want to build their livelihood around maximizing the health of their soil. Farmer Jesse reminds growers that “as possible” is the mantra for protecting the living soil, as little as you possibly can. He does not believe that growers should anguish over what does and does not qualify as “no-till.” If you are using a tool to promote soil life and biology, that’s the goal. Jesse’s goal with The Living Soil Handbook is to provide a comprehensive set of options, materials, and field-tested practices to inspire growers to design a soil-nurturing no-till system in their unique garden or farm ecosystem. “[A] practical, informative debut. . . . Gardeners interested in sustainable agriculture will find this a great place to start.”—Publishers Weekly” Frost offers a comprehensive, science-based, sympathetic, wholly practical guide to soil building, that most critical factor in vegetable gardening for market growers and home gardeners alike. A gift to any vegetable plot that will keep on giving.”—Booklist (starred review)

A 2014 Garden Writers Association Media Award Winner Just as he demystified the soil food web in his ground-breaking book *Teaming with Microbes*, in this new work **Jeff Lowenfels** explains the basics of plant nutrition from an organic gardener’s perspective. Most gardeners realize that plants need to be fed but know little or nothing about the nature of the nutrients and the mechanisms involved. In his trademark down-to-earth, style, Lowenfels explains the role of both macronutrients and micronutrients and shows gardeners how to provide these essentials through organic, easy-to-follow techniques. Along the way, Lowenfels gives the reader easy-to-grasp lessons in the biology, chemistry, and botany needed to understand how nutrients get into the plant and what they do once they’re inside.

“Sure to become a game-changing guide to the future of good food and healthy landscapes.”—Dan Barber, chef and author of *The Third Plate Prepare to set aside what you think you know about yourself and microbes. The Hidden Half of Nature reveals why good health—for people and for plants—depends on Earth’s smallest creatures. Restoring life to their barren yard and recovering from a health crisis, David R. Montgomery and Anne Biklé discover astounding parallels between the botanical world and our own bodies. From budget sheet to soil health, they show why cultivating microbes holds the key to transforming agriculture and medicine.*

Build healthy soil and grow better plants Robert Pavlis, a gardener for over four decades, debunks common soil myths, explores the rhizosphere, and provides a personalized soil fertility improvement program in this three-part popular science guidebook. Healthy soil means thriving plants. Yet untangling the soil food web and optimizing your soil health is beyond most gardeners, many of whom lack an in-depth knowledge of the soil ecosystem. *Soil Science for Gardeners* is an accessible, science-based guide to understanding soil fertility and, in particular, the rhizosphere – the thin layer of liquid and soil surrounding plant roots, so vital to plant health. Coverage includes: Soil biology and chemistry and how plants and soil interact Common soil health problems, including analyzing soil’s fertility and plant nutrients The creation of a personalized plan for improving your soil fertility, including setting priorities and goals in a cost-effective, realistic time frame. **Creating the optimal conditions for nature to do the heavy lifting of building soil fertility** Written for the home gardener, market gardener, and micro-farmer, *Soil Science for Gardeners* is packed with information to help you grow thriving plants.

Teaming with Microbes

The Living Soil Handbook

Building Soil: A Down-to-Earth Approach

Teaming with Nutrients

The Ultimate Organic Gardeners Guide to Teaming with Nutrients

The Organic Gardener’s Guide to Endophytic Bacteria and the Rhizophagy Cycle

Teaming with Fungi

Plant Families

Presents advice on how to improve growing soil, discussing some of the current misconceptions about soil and providing the best methods for adding enhancements that will produce nutrient-dense foods.

Part of the NOFA Guides series. Information on composting techniques, including: Principles and biology of composting Temperature, aeration and moisture control Composting methods Materials (additives and inoculants, biodynamic preparations) About costs (site preparation, equipment, labor and time) What do you do with it? Compost tea and other brewed microbial cultures Compost and the law With extended appendices including a recipe calculator, potting mix recipes, and a sample compost production budget sheet

For the past four decades, third-generation Montana farmer David Oien has been seeding a revolution against corporate agribusiness in the belly of the beast, the American grain belt. They have replaced their wheat and barley with a seemingly odd new crop, the lentil, a legume that has been part of the human diet since Neolithic times, but, until Oien’s work, was never grown on Montana farms. In this eye-opening narrative, journalist and food scientist Liz Carlisle chronicles Oien’s unlikely emergence as the leader of this agricultural upheaval.

As more farmers recognize the benefits of no-till farming for soil health, water retention, and crop productivity, expert Daniel Mays provides an in-depth how-to manual on getting started with no-till techniques for successful vegetable production on a commercial scale.

The Indispensable Green Resource for Every Gardener

The Winter Harvest Handbook

Crop Planning for Vegetable Growers

How to Grow World Record Tomatoes

A Guinness Champion Reveals His All-organic Secrets

The No-Till Grower’s Guide to Ecological Market Gardening

Mid- to Large-Scale Vermicomposting for Farms, Businesses, Municipalities, Schools, and Institutions

Using Locally Sourced Materials to Make Mineral and Biological Extracts and Ferments

This book is a complete beginner’s guide for growing No Till, fully sustainable, 100 percent organic cannabis. Not only will we teach you how to grow the best cannabis around, but we will show you how to cut costs and time while doing it!

How to Create an Organic Garden That’s Exploding with Life, Diversity and Exceptionally Nutrient-Dense Food Whether you’re an experienced gardener or just getting started, you are likely to encounter some perplexing (and common) setbacks – certain fruit and vegetable plants that don’t produce the amazing taste and big yields that you’d hoped for, ornamental plants that fail to thrive as abundantly as they should, and plant predators that chew your plants to the ground. All of these issues point to plants that aren’t at their optimum health. What could be wrong? Plants may be lacking in proper nutrition, missing beneficial microorganism companions, or short of the energy they need to reach their full nutrient-dense potential. The advice most often given by those in the know is “start with the soil,” but what specific steps should you take to really improve soil to optimum health? *Building Soils Naturally* shows how to create productive, living soil using a simple, practical, hands-on plan that includes:
• Using compost and microbial inoculants to balance the soil food web, because these organisms nourish and protect plants
• Controlling plant predators and weeds forever, without chemicals, by focusing on the root cause of the infestation problem
• Soil testing and full-spectrum organic fertilizing, because balancing soil nutrients is crucial for healthy plants
Building Soils Naturally outlines proven, sustainable methods for growing healthy food and plants that contribute to a healthy planet and a healthy you. Grow vigorous, more pest-resistant vegetables, flowers and ornamental plants by using complete and balanced nutrients – far beyond the simplistic, imbalanced concept of NPK. Healthy soil doesn’t happen just by composting, fertilizing or companion planting. It happens by using a holistic approach – outlined in this book and crafted right in your garden.

True Living Organics teaches you how to grow organic marijuana both indoors and outdoors. It is the only organic marijuana cultivation guide on the market. The first edition sold over 15,000 copies, and the new edition has over 100 additional pages of all new information and photos detailing how to grow marijuana organically so that it is healthier and tastes better. Organic marijuana is preferred for medical marijuana users as well as recreational marijuana users, and growing organic marijuana is much cheaper than synthetic hydroponic marijuana cultivation systems. This new edition features all new composting techniques, improved soil mixes for maximizing yield, and all new techniques for organic marijuana gardening, including worm farms, organic tea mixes, and highly effective organic soil amendments. Also includes an all new organic hashish guide which teaches you how to make all-natural organic hash from marijuana without the use of any dangerous chemicals.

Gardening can be a political act. Creativity, fulfillment, connection, revolution—it all begins when we get our hands in the dirt. *Food Not Laws* combines practical wisdom on ecological design and community-building with a fresh, green perspective on an age-old subject. Activist and urban gardener Heather Flores shares her nine-step permaculture design to help farmsteaders and city dwellers alike build fertile soil, promote biodiversity, and increase natural habitat in their own “paradise gardens.” *But Food Not Laws* doesn’t begin and end in the seed bed. This joyful permaculture lifestyle manual inspires readers to apply the principles of the paradise garden—simplicity, resourcefulness, creativity, mindfulness, and community—to all aspects of life. Plant “guerrilla gardens” in barren intersections and medians; organize community meals; start a street theater troupe or host a local art swap; free your kitchen from refrigeration and enjoy truly fresh, nourishing foods from your own plot of land; work with children to create garden play spaces. Flores cares passionately about the damaged state of our environment and the ills of our throwaway society. In *Food Not Laws*, she shows us how to reclaim the earth one garden at a time.

Building Soils Naturally

Using Sustainable Methods to Replicate Mother Nature

The Ultimate Guide to Growing All-natural Marijuana Indoors

Bread from Stones

Vermiculture Technology

Grow Your Soil!

10 Steps to Gardening With Nature

The Organic Gardener’s Guide to the Soil Food Web, Revised Edition

Healthy soil teems with life—not just earthworms and insects, but a staggering multitude of bacteria, fungi, and other microorganisms. Chemical fertilizers injure the microbial life that sustains healthy plants, and the soil becomes increasingly dependent on artificial, often toxic, substances. But there is an alternative: by strengthening the soil food web—the complex world of soil-dwelling organisms—gardeners can create a nurturing environment for plants. *Teaming with Microbes* extols the benefits of cultivating the soil food web. It clearly explains the activities and organisms that make up the web, and explains how gardeners can cultivate the life of the soil through the use of compost, mulches, and compost tea. With Jeff Lowenfels’ help, everyone—from devotees of organic gardening techniques to weekend gardeners who simply want to grow healthy, vigorous plants—can create rich, nurturing, living soil.

Over 400 entries of the most practical, up-to-date gardening information ever, collected from garden experts and writers nationwide! "Gardens are places to renew yourself in mind and body, to reawaken to the truth and beauty of the natural world, and to feel the life force inside and around you. And the organic way to garden is safer, cheaper, and more satisfying. Organic gardeners have shown that it's possible to have pleasant and productive gardens in every part of this country without using toxic chemicals. They make their home grounds an island of purity."--Robert Rodale

Garden Myths examines over 120 horticultural urban legends. Turning wisdom on its head, Robert Pavlis dives deep into traditional garden advice and debunks the myths and misconceptions that abound. He asks critical questions and uses science-based information to understand plants and their environment. Armed with the truth, Robert then turns this knowledge into easy-to-follow advice. - Is fall the best time to clean the garden? - Do bloom boosters work?- Will citronella plants reduce mosquitoes in the garden?- Do pine needles acidify soil?- Should tomatoes be suckered?- Should trees be staked at planting time? - Can burlap keep your trees warm in winter?- Will a pebble tray increase humidity for houseplants? *Garden Myths is a must-read for anyone who wants to use environmentally sound practices. This fascinating and informative book will help you understand plants better, reduce unnecessary work, convince you to buy fewer products and help you enjoy gardening more.*

If you want methods that won't break your back, are good for the environment, and create high-yielding, beautiful gardens of all shapes and sizes, this is the book for you!

How to Turn Your Yard Into a Garden and Your Neighborhood Into a Community

The Organic Gardener’s Guide to Optimizing Plant Nutrition

Lentil Underground

Gardening with Biochar

Compost, Vermicompost and Compost Tea

Harness the Power of the Soil Food Web to Create Your Best Garden Ever

Food Not Laws

The Complete Guide to Marijuana and Hemp Cultivation

Ed Rosenthal’s *Cannabis Grower’s Handbook* is the definitive guide for all cultivators—from first-time home growers to experienced large-scale commercial cannabis operators. The *Grower’s Handbook* breaks down the fundamentals of marijuana cultivation and demonstrates their practical applications in gardens of any size. Learn new techniques to maximize yield and efficiency and to grow bigger, more potent resinous buds! *Cannabis Grower’s Handbook* covers the newest lighting permaculture and regenerative farming techniques; advanced drying and curing methods and strategies; comprehensive integrated pest management; and over a dozen specialized garden setups. Still deciding what to grow? This guide will help you choose among the many options from innovative breeders, which now include autoflowering plants and CBD and CBG varieties of hemp. With over 600 pages of full-color photos, this grower’s guide presents the latest science, tools, and techniques. Ed Rosenthal’s books are known for their easy-to-understand and trend-setting content and have educated millions of growers—hobbyists and professional cultivators alike consider Ed’s books their go-to guides. This fully updated edition of Ed’s groundbreaking *Marijuana Grower’s Handbook* comes at a time when more people than ever before can legally grow cannabis and want to know how to maximize their yields. Once again, Ed shows you how, this time as a leader in the legal cannabis industry, as well as from professors at leading horticultural schools at the University of California at Davis, Cornell University, the University of Connecticut, and Oaksterdam University. Two new co-authors have contributed their expertise to *Cannabis Grower’s Handbook*: Dr. Robert Flannery holds a Ph.D. in plant biology and is the founder of Dr. Robb Farms, a licensed cannabis producer in California. Angela Bacca is an editor and journalist who has edited the 2010 edition of the *Marijuana Grower’s Handbook*. Dr. Robb and Angela Bacca join Ed Rosenthal to bring the must-have *Cannabis Grower’s Handbook* to a rapidly “growing” audience.

"Techniques and systems for processing food scraps, manure, yard debris, paper, and more!"--Cover

Most gardeners realize that plants need to be fed but know little or nothing about the nature of the nutrients involved or how they get into plants. *Teaming with Nutrients* explains how nutrients move into plants and what both macro-nutrients and micro-nutrients do once inside. It shows organic gardeners how to provide these essentials. To fully understand how plants eat, Anita Mayfair uses her ability to make science accessible with lessons in the biology, chemistry, and botany that they do once they’re inside the plant.

Co-edited by international earthworm expert Clive A. Edwards, *Vermiculture Technology: Earthworms, Organic Wastes, and Environmental Management* is the first international, comprehensive, and definitive work on how earthworms and microorganisms interact to break down organic wastes on a commercial basis. Many books cover the importance of composting

The Intelligent Gardener

COG Practical Skills Handbook

Earthworms, Organic Wastes, and Environmental Management

The Organic Gardener’s Guide to Optimizing Plant Nutrition

How to Start and Run a Profitable Market Garden That Builds Health in Soil, Crops, and Communities

Gardening Indoors and Outdoors

A Master’s Manual of Tools and Techniques for the Home and Market Gardener, 2nd Edition

100 Easy Lessons for Growing a More Glorious Garden

Our foods have lost up to 70% of some nutrients in the last 70 years. Even organic foods have little more nutrient density than those conventionally grown. This loss of nutrition may explain our increasing health concerns. Whatever your goals and dreams in life, all will be more easily achieved when your body and mind receive the best nutrition from optimally-grown foods. Learn how the *Beyond Organic Growing System (BOGS)* can produce *Nutrition* *Grown* foods, with many times the nutrient content of typical produce. Plants must receive the optimal nutrition they need to be able to express their full potentials to create large arrays of health-giving phytonutrients. In turn, people and animals who eat these *Nutrition Grown* plants receive the phytonutrients they need to help them express their full potentials. "The cure just might be in the garden-the *Nutrition Grown* garden!"

100 rules to garden by *Gardening doesn’t have to be difficult, and Kate Frey—expert gardener and designer—makes it easier than ever with her new book, Ground Rules. Frey distills the vital lessons of gardening into 100 simple rules that will yield a gorgeous, healthy, and thriving home garden. Discover tips on garden design, care and maintenance, healthy soil, and the best ways to water. You’ll also learn how to create a garden that encourages birds and butterflies, how to choose healthy plants at the garden center, how and when to re-pot a container, and much more. With bite-size chunks of expert information and inspiring photographs, *Ground Rules* is your new go-to resource.*

From one of the experts at the New York Botanical Garden, this guide shares the science of good gardening in a design-forward, beginner-friendly way that will appeal to new gardeners everywhere.

Contrary to popular belief, a good living can be made on an organic farm. What’s required is farming smarter, not harder. In *The Organic Farmer’s Business Handbook*, Richard Wiswall shares advice on how to make your vegetable production more efficient, better manage your employees and finances, and turn a profit. From his twenty-seven years of experience at Cate Farm in Vermont, Wiswall knows firsthand the joys of starting and operating an organic farm—as well as the challenges of making a living from one. Farming offers fundamental satisfaction from producing food, working outdoors, being one’s own boss, and working intimately with nature. But, unfortunately, many farmers avoid learning about the business end of farming; because of this, they often work harder than they need to, or quit farming altogether because of frustrating—and often avoidable—losses. In this comprehensive business kit, Wiswall covers: Step-by-step procedures to make your crop production more efficient Advice on managing employees, farm operations, and office systems Novel marketing strategies What to do with your profits: business spending, investing, and planning for retirement A companion CD offers valuable business tools, including easy-to-use spreadsheets for projecting cash flow, a payroll calculator, comprehensive crop budgets for forty different crops, and tax planners.

A Guide for Gardeners and Botanists

The Hidden Half of Nature: The Microbial Roots of Life and Health

The No-Till Organic Vegetable Farm

Beyond Organic

The Organic Farmer’s Business Handbook

The New Organic Grower

Ground Rules

Provides practical guidelines and steps to follow to be successful in a *Gardening With Nature* program. *Gardening With Nature* means more than just switching from chemical fertilizers to organic gardening products or implementing sustainable growing practices. “The switch” involves implementing a whole new preventative approach to gardening. Through a question-and-answer format the authors describe how to grow organically and sustainably using this *Gardening With Nature* approach --

In *Teaming with Microbes*, Jeff Lowenfels revealed the fascinating facts around the soil food web, all the tiny organisms that live in soil and aid a plants growth. In *Teaming with Nutrients*, he explored how those organisms aid in the uptake of nutrients. And in *Teaming with Fungi*, he detailed the symbiotic relationship between plants and fungi—the most important organism living in the soil. In his new book *Teaming with Bacteria*, Lowenfels digs into the new science behind how endophytic bacteria supply nutrients to a large array of plants and explains, in accessible language, how this information applies to home gardeners, small-scale farmers, and cannabis growers. Based on cutting-edge science that will help gardeners increase plant health and productivity, *Teaming with Bacteria* is a must-have addition to every organic gardener’s library.

Revitalize your garden—and go beyond compost—by making your own biologically diverse inoculants and mineral-rich amendments using leaf mold, weeds, eggshells, bones, and other materials available for little or no cost! In *The Regenerative Grower’s Guide to Garden Amendments*, experimental gardener and author Nigel Palmer provides practical, detailed instructions that are accessible to every grower who wants to achieve a truly sustainable garden ecosystem—all while enjoying better results at a fraction of the cost of commercial fertilizer products. These recipes go beyond fertilizer replacement, resulting in greater soil biological activity and mineral availability. They also increase pest and disease resistance, yields, and nutrient density. Recipes include: Extracting nutrients from plant residues using simple rainwater techniques Extracting minerals from bones and shells using vinegar Fermenting plant juices and fish Culturing indigenous microorganisms (IMO) Inspired by the work of many innovative traditional agricultural pioneers, especially Chao Ju-Yong (founder of the Korean Natural Farming method), *The Regenerative Grower’s Guide to Garden Amendments* also includes a primer on plant-soil interaction, instructions for conducting a soil test, and guidance on compost, cover cropping, mulching, measuring the quality of fruits and vegetables using a refractometer, and other aspects of sustainable gardening—making it a must-have resource for any serious grower.

Teaming with Nutrients**The Organic Gardener’s Guide to Optimizing Plant Nutrition****Timber Press**

Supercharge Your Soil with Bioactivated Charcoal: Grow Healthier Plants, Create Nutrient-Rich Soil, and Increase Your Harvest

Renegade Farmers and the Future of Food in America

Innovative Methods for Organic Gardeners

The Organic Grow Book - English Edition

Rodale’s Ultimate Encyclopedia of Organic Gardening

A Complete Guide for Complete Beginners!

Growing Nutrient Dense Food

Natural Solutions for Better Gardens & Yards

This practical handbook reveals new organic gardening techniques. It’s a compendium of secrets rediscovered and innovative tips. Beneficial micro-organisms, bokashi or biodynamic compost, permaculture, vortex, seeds and cuttings... The Organic Grow Book opens the doors to a full-scale (r)evolution where productivity goes hand in hand with quality. Summer and winter, in soil or bioponic, learn to grow healthier and tastier plants – fruit, vegetables, flowers – while enhancing your own well-being and the planet’s. With its broad array of unprecedented strategies and proven tips, this eco-responsible and highly humorous guide is a must for all mindful gardeners, whether beginners or experts. Photos, 3D diagrams, microscopes, step-by-step graphs... over 500 original illustrations. BioScope® Addresses and websites Trade shows and fairs Over 550 professional entries « An indoor & outdoor organic gardening reference. » Ushuaia TV « A very precious book. » Le Monde « Explains everything about organic gardening. A heck of a book! » France Inter

Guinness world record holder Charles Wilber reveals for the first time how he grows record-breaking tomatoes without chemicals.

Growing awareness of the importance of soil health means that microbes are on the minds of even the most casual gardeners. After all, anyone who has ever attempted to plant a thriving patch of flowers or vegetables knows that what you grow is only as good as the soil you grow it in. It is possible to create and maintain rich, dark, crumbly soil that’s teeming with life, using very few inputs and a no-till, no-fertilizer approach. Certified permaculture designer and lifelong gardener Diane Miesler presents the science of soil health in an engaging, entertaining voice geared for the backyard grower. She shares the techniques she has used – including cover crops, constant mulching, and a simple-but-supercharged recipe for compost tea – to transform her own landscape from a roadside dump for broken asphalt to a garden that stops traffic, starting from the ground up.

Explains how to grow and harvest vegetables throughout the year in mobile plastic greenhouses that use little heat, covering topics such as greenhouse design and construction, soil preparation, weed control, pests, and summer and winter crops.

True Living Organics

Teaming with Bacteria

DIY Autoflowering Cannabis

A New and Rational System of Land Fertilization and Physical Regeneration

A Complete Guide to Managing Finances, Crops, and Staff - and Making a Profit

Garden Myths

Feeding the Soil on the Organic Farm

Compost Teas for the Organic Grower

Teaming with Nutrients will make you a better informed, more successful, more environmentally responsible gardener and will give you a new appreciation for the plants you grow.

With more than 45,000 sold since 1989, The New Organic Grower has become a modern classic. In this newly revised and expanded edition, master grower Eliot Coleman continues to present the simplest and most sustainable ways of growing top-quality organic vegetables. Coleman updates practical information on marketing the harvest, on small-scale equipment, and on farming and gardening for the long-term health of the soil. The new book is thoroughly updated, and includes all-new chapters such as: Farm-Generated Fertility—how to meet your soil-fertility needs from the resources of your own land, even if manure is not available. The Moveable Feast—how to construct home-garden and commercial-scale greenhouses that can be easily moved to benefit plants and avoid insect and disease build-up. The Winter Garden—how to plant, harvest, and sell hardy salad crops all winter long from unheated or minimally heated greenhouses. Pests—how to find “plant-positive” rather than “pest-negative” solutions by growing healthy, naturally resistant plants. The Information Resource—how and where to learn what you need to know to grow delicious organic vegetables, no matter where you live. Written for the serious gardener or small market farmer, The New Organic Grower proves that, in terms of both efficiency and profitability, smaller can be better.

Bio-activated charcoal — called biochar — is the new darling of organic growers, embraced for its outstanding abilities to enrich the soil and improve plant growth. Gardening with Biochar is the first comprehensive guide to understanding, making, and using it effectively in the home garden. In this highly accessible handbook, long-time garden writer Jeff Cox explains what biochar is and provides detailed instructions for how it can be made from wood or other kinds of plant material, along with specific guidelines for using it to enrich soil, prevent erosion, and enhance plant growth. Now widely available

at garden centers, biochar is also being lauded for its ability to sequester carbon in the soil, making it good for the health of the planet, as well as the plants.

A totally new category of plants — as easy to grow as tomatoes, perfect for gardeners Cannabis prohibition is ending around the world, and there's a new bud in town — auto-flowering cannabis. As easy to grow as tomatoes, auto-flowering cannabis is the perfect new plant for the home gardener who has limited time and space. Unlike commercially grown cannabis, auto-flowering cannabis plants are small, container-grown, day-neutral, require no special lights or equipment, and grow incredibly fast – from seed to harvest in as little as seven weeks. Written by gardening authority Jeff Lowenfels, DIY Auto-flowering Cannabis is a full-color, illustrated guide for everyone wanting to grow their own. It covers: The history and benefits of auto-flowering cannabis Its origins, chemistry, and growing habits Step-by-step growing methods, including tips, tricks, supplies, and seed sourcing How to harvest, process, and breed your new plants. If you are a home gardener or already grow cannabis, you too can learn how to grow this new plant with ease, all while reaping its many benefits, such as harvesting it for medical use, recreational use, or simply as a decorative, sweet-smelling flower to enjoy. If you like to grow tomatoes, you will love growing auto-flowering cannabis.

Year-round Vegetable Production Using Deep-organic Techniques and Unheated Greenhouses

The Regenerative Grower's Guide to Garden Amendments

The New Gardener's Handbook

The Worm Farmer's Handbook

The Organic Grower's Guide to Mycorrhizae

Everything You Need to Know to Grow a Beautiful and Bountiful Garden

Soil Science for Gardeners

Cannabis Grower's Handbook

From the bestselling author of Teaming with Microbes and Teaming with Nutrients Teaming with Fungi is an important guide to mycorrhizae and the role they play in agriculture, horticulture, and hydroponics. Almost every plant in a garden forms a relationship with fungi, and many plants would not exist without their fungal partners. By better understanding this relationship, gardeners can take advantage of the benefits of fungi, which include an increased uptake in nutrients, resistance to drought, earlier fruiting, and more. Learn how the fungi interact with plants and how to best to employ them in your home garden.

Everything you need to know about feeding your garden, orchard, or smallholding with homemade and chemical-free "teas"—packed with recipes for creating nutrient-rich, healthy soil, to give you healthy plants and ecosystems Permaculture orchardist Eric Fisher provides an in depth history of organic agriculture and the rise in chemical inputs. He then goes on to explore the importance of nutrients, their cycles and the structure of soil. This enables the reader to truly understand their soil and own ecosystem, so they can manage it properly. Once we understand how soil and nutrients work, it is easier to diagnose problems and find a natural remedy. Eric provides recipes for a wide range of compost teas that can remedy many different deficits, as well as for natural pesticides and insecticides. Eric shows the reader how to use the plants growing around them to create these "teas," using aerobic and anaerobic processes, as well as how to grow specific plants to encourage beneficial insects for healthy ecosystems. Eric's aim is for growers to feel confident in diagnosing plant disease and pest problems, and then be able to create the right remedy for the problem. If we can care for the health of our plants and soil without using chemicals, we can save money, encourage others to do the same, and demonstrate that conventional chemical inputs are not necessary.

Plant Families is an easy-to-use, beautifully illustrated guide to the more than seventy core plant families every horticulturist, gardener, or budding botanist needs to know. It introduces the basics of plant genealogy and teaches readers how to identify and understand the different structures of flowers, trees, herbs, shrubs, and bulbs. It then walks through each family, explaining its origins and range and describing characteristics such as size, flowers, and seeds. Each family is accompanied by full-color botanical illustrations and diagrams. "Uses For" boxes planted

throughout the book provide practical gardening tips related to each family. By understanding how botanists create these groupings, we can become more apt at spotting the unique characteristics of a plant and identifying it faster and more accurately. Understanding plant families also helps us to make sense of- and better appreciate- the enormous biological diversity of the plant kingdom.

No Till, Fully Sustainable, Organic, Cannabis Cultivation

Working with Nature to Build Soil Health

Growing for Maximum Nutrition and Flavor

An Easy Way to Grow Your Own