



Teaming with Nutrients: The Organic Gardener's Guide to Optimizing Plant Nutrition (Science for Gardeners)

By Jeff Lowenfels

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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. Where *Teaming with Microbes* used adeptly used microbiology; *Teaming with Nutrients* employs cellular biology.

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, Lowenfels uses his ability to make science accessible with lessons in the biology, chemistry, and botany all gardeners need to understand how nutrients get to the plant and what they do once they're inside the plant.

Teaming with Nutrients will open your eyes to the importance of understanding the role of nutrients in healthy, productive organic gardens and it will show you how these nutrients do their jobs. In short, it will make you a better informed, more successful and more environmentally responsible gardener.

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Teaming with Nutrients: The Organic Gardener's Guide to Optimizing Plant Nutrition (Science for Gardeners) By Jeff Lowenfels Bibliography

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Editorial Review

Review

"A breakthrough book. . . well worth owning and reading. No comprehensive horticultural library should be without it." —*American Gardener*

"For years, we've thought of the 'food chains' in our environment. Lowenfels and Lewis explain an even more wonderful idea: the 'soil food web.' Read *Teaming with Microbes* and keep it or give it to the library so others may learn of this astounding way to grow vegetables, trees, lawns." —*Washington Gardener*

"Exceptional. . . A brief, clear overview of scientific information with which every gardener should be familiar." —*Monterey Herald*

"Digs into soil in a most enlightening and entertaining way." —*Dallas Morning News*

"Required reading for all serious gardeners." —*Miami Herald*

"This intense little book may well change the way you garden." —*St. Louis Post-Dispatch*

"All good gardeners know healthy plants start with healthy soil. But why? And how? In *Teaming with Microbes* Lowenfels and Lewis reveal the new research in the most practical and accessible way." —*The Oregonian*

"For years, we've thought of the 'food chains' in our environment. Lowenfels and Lewis explain an even more wonderful idea: the 'soil food web.' Read *Teaming with Microbes* and keep it or give it to the library so others may learn of this astounding way to grow vegetables, trees, lawns." —*Detroit News*

"Sure, it's a gardening book, but it has all the drama and suspense of an extraterrestrial thriller. . . Read this book and you'll never look at soil the same way." —*B&B Magazine*

"[This book] is a must read for any gardener looking to create a sustainable, healthy garden without chemicals." —*Virginian-Pilot*

"It takes readers underground to meet the critters that live if you let them under the garden." —*Rockland Courier-Gazette*

"All good gardeners know healthy plants start with healthy soil. But why? And how? In *Teaming with Microbes* Lowenfels and Lewis reveal the new research in the most practical and accessible way." —*Anchorage Daily News*

From the Author

Teaming With Nutrients...how plants eat and what to feed them. We all learn about cation exchange capacity, CEC, but that always ends up as a discussion of how the soil particle holds nutrients. It never really explains how plants actually take up nutrients, ie how they eat. And, what about these nutrients once they get

inside the plant? What happens to them?

This second Teaming book is a trip that delves into the cellular biology of plants in the same way Teaming With Microbes was a book that starred microbiology. This is, at least to me, a fascinating voyage that requires some chemistry and botany, too, but stars cellular biology. Don't worry, the learning is fun and fascinating and I make it easy. In the end you will know how plants eat and, of course, what to feed them. It is not all biology and botany. Teaming contains the practical advice you need feed your plants properly and organically.

Teaming with Nutrients should change the way you farm and garden, for sure, but hopefully you will never look at plants the same way again. You will appreciate the 18 trillion cells in an apple tree and know how they work. And it all happens with just 17 nutrients!

From the Back Cover

Smart gardeners know that soil is anything but an inert substance. Healthy soil is teeming with life—not just earthworms and insects, but a staggering multitude of bacteria, fungi, and other microorganisms. When we use chemical fertilizers, we injure the microbial life that sustains healthy plants, and thus become increasingly dependent on an arsenal of artificial substances, many of them toxic to humans as well as other forms of life. But there is an alternative to this vicious circle: to garden in a way that strengthens, rather than destroys, the soil food web—the complex world of soil-dwelling organisms whose interactions create a nurturing environment for plants. By eschewing jargon and overly technical language, the authors make the benefits of cultivating the soil food web available to a wide audience, from devotees of organic gardening techniques to weekend gardeners who simply want to grow healthy, vigorous plants without resorting to chemicals.

This revised edition updates the original text and includes two completely new chapters—on mycorrhizae (beneficial associations fungi form with green-leaved plants) and archaea (single-celled organisms once thought to be allied to bacteria).

Users Review

From reader reviews:

Yvonne Wagner:

Book is to be different for each grade. Book for children until adult are different content. As it is known to us that book is very important for all of us. The book Teaming with Nutrients: The Organic Gardener's Guide to Optimizing Plant Nutrition (Science for Gardeners) has been making you to know about other understanding and of course you can take more information. It is quite advantages for you. The guide Teaming with Nutrients: The Organic Gardener's Guide to Optimizing Plant Nutrition (Science for Gardeners) is not only giving you considerably more new information but also to become your friend when you really feel bored. You can spend your own spend time to read your reserve. Try to make relationship while using book Teaming with Nutrients: The Organic Gardener's Guide to Optimizing Plant Nutrition (Science for Gardeners). You never feel lose out for everything should you read some books.

Christopher Jones:

A lot of people always spent their very own free time to vacation or maybe go to the outside with them friends and family or their friend. Were you aware? Many a lot of people spent these people free time just watching TV, as well as playing video games all day long. If you want to try to find a new activity that's look different you can read some sort of book. It is really fun for yourself. If you enjoy the book that you simply read you can spent the whole day to reading a publication. The book Teaming with Nutrients: The Organic Gardener's Guide to Optimizing Plant Nutrition (Science for Gardeners) it is rather good to read. There are a lot of people who recommended this book. We were holding enjoying reading this book. In case you did not have enough space to deliver this book you can buy the particular e-book. You can m0ore effortlessly to read this book through your smart phone. The price is not to fund but this book provides high quality.

Barbara Palmer:

The book untitled Teaming with Nutrients: The Organic Gardener's Guide to Optimizing Plant Nutrition (Science for Gardeners) contain a lot of information on the item. The writer explains your ex idea with easy approach. The language is very straightforward all the people, so do certainly not worry, you can easy to read the idea. The book was published by famous author. The author gives you in the new era of literary works. You can actually read this book because you can read on your smart phone, or model, so you can read the book with anywhere and anytime. In a situation you wish to purchase the e-book, you can wide open their official web-site in addition to order it. Have a nice learn.

Barbara Corbin:

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