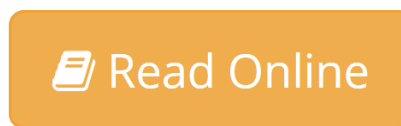


Complete Guide for Growing Plants Hydroponically

By J. Benton Jones Jr.



Complete Guide for Growing Plants Hydroponically By J. Benton Jones Jr.

With the continued implementation of new equipment and new concepts and methods, such as hydroponics and soilless practices, crop growth has improved and become more efficient. Focusing on the basic principles and practical growth requirements, the **Complete Guide for Growing Plants Hydroponically** offers valuable information for the commercial grower, the researcher, the hobbyist, and the student interested in hydroponics. It provides details on methods of growing that are applicable to a range of environmental growing systems.

The author begins with an introduction that covers the past, present, and future of hydroponics. He also describes the basic concepts behind how plants grow, followed by several chapters that present in-depth practical details for hydroponic growing systems:

- The essential plant nutrient elements
- The nutrient solution
- Rooting media
- Systems of hydroponic culture
- Hydroponic application factors

These chapters cover the nutritional requirements of plants and how to best prepare and use nutrient solutions to satisfy plant requirements, with different growing systems and rooting media, under a variety of conditions. The book gives many nutrient solution formulas and discusses the advantages and disadvantages of various hydroponic systems. It also contains a chapter that describes a school project, which students can follow to generate nutrient element deficiency symptoms and monitor their effects on plant growth.

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- Rank: #2012965 in eBooks
- Published on: 2014-02-13
- Released on: 2014-02-13
- Format: Kindle eBook

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Editorial Review

About the Author

J. Benton Jones, Jr., earned a BS degree in agricultural science from the University of Illinois and obtained MS and PhD degrees in agronomy from the Pennsylvania State University. He has written extensively on hydroponic topics and has been engaged in hydroponic research projects for much of his professional career. Dr. Jones is considered an authority on applied plant physiology and the use of analytical methods for assessing the nutrient element status of rooting media and plants as a means for ensuring plant nutrient element sufficiency in both soil and soilless crop production settings. At various times, he has served as a director of several university and commercial soil and plant analysis laboratories, and he still serves as an advisor for two such laboratories.

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