



Plant Nutrition of Greenhouse Crops

By Cees Sonneveld, Wim Voogt

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Greenhouse cultivation is noted for its high uptake of minerals, consistent climatic conditions, exclusion of natural precipitation and control of salt accumulation. Acknowledging that plant nutrition in greenhouse cultivation differs in many essentials from field production, this volume details specific information about testing methods for soils and substrates in a greenhouse environment. It does so while offering a universally applicable analysis. This is based on the composition of the soil and substrate solutions, methods for the interpretation of tissue tests, and crop responses on salinity and water supply in relation to fertilizer application. Fertilizer additions, related to analytical data of soil and substrate samples, are presented for a wide range of vegetable and ornamental crops. The subject is especially apt now as substrate growing offers excellent possibilities for the optimal use of water and nutrients, as well as the potential for sustainable production methods for greenhouse crops.

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Plant Nutrition of Greenhouse Crops By Cees Sonneveld, Wim Voogt Bibliography

- Sales Rank: #2666544 in Books
- Published on: 2009-10-02
- Original language: English
- Number of items: 1
- Dimensions: 9.46" h x 1.15" w x 6.30" l, 1.67 pounds
- Binding: Hardcover
- 431 pages

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Review

From the reviews:

“This book is a comprehensive, detailed treatise on fertilisation and nutrient relationships in growing media and hydroponics. ... the book is of most value to research workers in soilless culture and substrate methods of growing under glass, and students on final year horticulture and applied plant science courses. ... is likely to form the standard reference work on plant nutrition in glasshouse crops for many years.” (Bill Carlile, *Chronica Horticulturae*, Vol. 50 (3), 2010)

“This 17-chapter book covers a wide range of topics, including fertilizers and soil improvements; soil, substrate, and tissue testing; water uptake, supply, and quality References are listed at the end of each chapter. ... Color photographs of disorders caused by calcium deficiency or excess in several species of vegetable and floral crops are also included. ... An index includes references to nutrient elements as well as topics covered in the book. ... Summing Up: Recommended. Upper-division undergraduate through professional collections.” (F. G. Dennis Jr., *Choice*, Vol. 47 (11), July, 2010)

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