

# Physiology of Crop Production

*By N.K. Fageria, V.C. Baligar, Ralph Clark*

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## **Physiology of Crop Production** By N.K. Fageria, V.C. Baligar, Ralph Clark

This single volume explores the theoretical and the practical aspects of crop physiological processes around the world

The marked decrease over the past century in the land available for crop production has brought about mounting pressure to increase crop yields, especially in developing nations. Physiology of Crop Production provides cutting-edge research and data for complete coverage of the physiology of crop production, all in one source, right at your fingertips. This valuable reference gives the extensive in-depth information soil and crop professionals need to maximize crop productivity anywhere the world. Leading soil and plant scientists and researchers clearly explain theory, practical applications, and the latest advances in the field.

Crop physiology is a vital science needed to understand crop growth and development to facilitate increases of plant yield. Physiology of Crop Production presents a wide range of information and references from varying regions of the world to make the book as complete and broadly focused as possible. Discussion in each chapter is supported by experimental data to make this book a superb resource that will be used again and again. Chapter topics include plant and root architecture, growth and yield components, photosynthesis, source-sink relationship, water use efficiency, crop yield relative to water stress, and active and passive ion transport. Several figures and tables accompany the extensive referencing to provide a detailed, in-depth look at every facet of crop production.

Physiology of Crop Production explores management strategies for:

- ideal plant architecture
- maximizing root systems
- ideal yield components
- maximizing photosynthesis
- maximizing source-sink relationship
- sequestration of carbon dioxide
- reducing the effects of drought
- improving N, P, K, Ca, Mg, and S nutrition
- improving micronutrient uptake

Physiology of Crop Production is an essential desktop resource for plant physiologists, soil and crop scientists, breeders, agronomists, agronomy administrators in agro-industry, educators, and upper-level undergraduate and graduate students.

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### **Review**

"A RICH SOURCE OF INFORMATION. . . WILL SERVE AS EXCELLENT MATERIAL FOR TEACHING REAL PHYSIOLOGY for improved, efficient crop production." -- *Moustafa A. Elrashidi, Soil Scientist, USDA*

"A VALUABLE RESOURCE FOR TEACHERS, GRADUATE STUDENTS, PROFESSIONAL RESEARCHERS, AND AGRICULTURAL PLANNERS AND MANAGERS." -- *Charles D. Foy, PhD, Research Soil Scientist, USDA, ARS (Retired)*

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