



The Role of Plant Roots in Crop Production

Nand Kumar Fageria

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The Role of Plant Roots in Crop Production presents the state of knowledge on environmental factors in root growth and development and their effect on the improvement of the yield of annual crops. This book addresses the role of roots in crop production and includes references to numerous annual crops. In addition, it brings together the issues and the state-of-the-art technologies that affect root growth, with comprehensive reviews to facilitate efficient, sustainable, economical, and environmentally responsible crop production.

Written for plant scientists, crop scientists, horticulturalists, and soil scientists, plant physiologists, breeders, environmental scientists, agronomists, and undergraduate and graduate students in different disciplines of agricultural science, **The Role of Plant Roots in Crop Production:**

- Addresses root architecture and development dynamics to help users improve crop productivity
- Emphasizes crop production, plant nutrition, and soil chemistry relative to root growth and functions
- Covers root morphology, root functions, nutrient and water uptake by roots, root-soil interactions, root-environment interactions, root-microbe interactions, physiology of root crops, and management practices to improve root growth
- Supports content with experimental results, and additional data is presented with pictures

Increasing food production worldwide has become a major issue in the 21st century. Stagnation in grain yield of important food crops in recent years in developed, as well as developing, countries has contributed to a sharp increase in food prices. Furthermore, higher grain yield will be needed in the future to feed a burgeoning world population with a rising standard of living that requires more grain per capita. Technologies that enhance productivity, ensure environmental safety, and conserve natural resources are required to meet this challenge.

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