

# Micronutrient Deficiencies in Global Crop Production

Brian J. Alloway (Ed.)



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A deficiency of one or more of the eight plant micronutrients (boron, chlorine, copper, iron, manganese, molybdenum, nickel and zinc) will adversely affect both the yield and quality of crops. Micronutrient deficiencies in crops occur in many parts of the world, at various scales (from one to millions of hectares), but differences in soil conditions, climate, crop genotypes and management, result in marked variations in their occurrence. The causes, effects and alleviation of micronutrient deficiencies in crops in: Australia, India, China, Turkey, the Near East, Africa, Europe, South America and the United States of America, are covered, and these are representative of most of the different conditions under which crops are grown anywhere in the world. Links between low contents of iodine, iron and zinc (human micronutrients) in staple grains and the incidence of human health problems are discussed, together with the ways in which the micronutrient content of food crops can be increased and their bioavailability to humans improved. Detailed treatment of topics, such as: soil types associated with deficiencies, soil testing and plant analysis, field experiments, innovative treatments, micronutrients in the subsoil, nutrient interactions, effects of changing cropping systems, micronutrient budgets and hidden deficiencies in various chapters provides depth to the broad coverage of the book. This book provides a valuable guide to the requirements of crops for plant micronutrients and the causes, occurrence and treatment of deficiencies. It is essential reading for many agronomy, plant nutrition and agricultural extension professionals.

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