



Improvement of nutritional quality of food crops with fertilizer: a global meta-analysis

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Abstract

Providing the world's population with sufficient and nutritious food through sustainable food systems is a major challenge of the twenty-first century. Fertilizer use is a major driver of crop yield, but a comprehensive synthesis of the effect of fertilizer on the nutritional quality of food crops is lacking. Here we performed a comprehensive global meta-analysis using 7859 data pairs from 551 field experiment-based articles published between 1972 and 2022, assessing the contribution of fertilization with a wide set of plant nutrients to the nutritional quality of food crops (i.e., fruits, vegetables, cereals, pulses/oil crops, and sugar crops). On average, fertilizer application improved crop yield by 30.9% (CI: 28.2–33.7%) and nutritional quality (referring to all nutritionally relevant components assessed: carbohydrates, proteins, oil, vitamin C, representative mineral nutrients, and total soluble solids) by 11.9% (CI: 10.7–12.1%). The improvements were largely nutrient- and crop species dependent, with vegetables being the most responsive. Potassium, magnesium, and micronutrients played important roles in promoting crop nutritional quality, whereas the combined application of inorganic and organic source(s) had the greatest impact on quality. Desirable climatic conditions and soil properties (i.e., silt loam, soil organic matter 2.5–5.0%, and pH 4.5–8.5) supported further enhancements. Considering cross-continent responsiveness, the increase in the nutritional quality of food crops with fertilizer application was greatest in Africa. In a nutshell, our findings pave the way towards a quantitative understanding of nutrient management programs and responsible plant nutrition solutions that foster the sustainable production of nutritious and healthy food crops for human consumption.

Keywords Soil and environmental conditions · Soil fertility and plant nutrition · Agriculture production · Biofortification · Human health · Food security

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Guidelines for Seed Exchange and Plant Introduction in Tropical Crops Food and Agriculture Organization of the United Nations, 1986-01-01 Early Agrometeorological Crop Yield Assessment Food and Agriculture Organization of the United Nations, 1986-01-01 Diverse meteorologische en hydrologische meetgegevens en cijfers van gewasopbrengsten uit verschillende landen worden weergegeven en in relatie tot elkaar gebracht om tot richtlijnen voor opbrengstvoorspelling te komen in het bijzonder voor de ontwikkelingslanden

Nutritional Quality of Plant Foods, 1998 **Weeds in Tropical Crops** Jacqueline M. Benson, 1982-01-01 **Cassava Farmer Field Schools** Martin Ameu, 2013 This manual is part of FAO's effort to promote sustainable intensification of smallholder crop production. It has been developed from experiences with farmer field schools in four African countries. It provides background information on the farmer field school approach and a compilation of field exercises as they are used in cassava farmer field schools. The guide is intended for use by farmer field facilitators during training of facilitators or during the farmer field school itself.

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Date Palm Cultivation Food and Agriculture Organization of the United Nations, 2002 This publication provides a basic introduction to date palm propagation, production and protection techniques. Chapters cover botanical and systematic description, origin, geographical distribution and nutritional value, economic importance, climatic requirements, orchard management, harvesting and diseases and pests of date palm.

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voedingswaarde botanie en fysiologie genetica en rassen ecologie *Orphan Plant Species for Food Security and Nutrition: Successes, Challenges, and a Way Forward* Enoch G. Achigan-Dako,Iago Lowe Hale,Katherine Steele,E. O. Deedi Sogbohossou,2023-03-31 *Pastures and Cattle Under Coconuts* Stephen G. Reynolds,1988 The purpose of this book is to provide an introduction to the subject for college and university students to serve as a state of the art reference for researchers and provide information and ideas of practical use to extension workers plantation managers and progressive smallholders the material presented is a mixture of basic principles and practical ideas An extensive bibliography is included

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