



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.

Ecology and Control of Perennial Weeds in Latin America Food and Agriculture Organization of the United Nations, 1986-01-01 Importance biology and basic control of Sorghum halepense L Pers. Biology and ecology of Cynodon dactylon L Pers. Ecology biology physiology morphology and importance of Cyperus esculentus L Ecology biology physiology morphology and importance of Cyperus rotundus L Control of Cyperus esculentus L and Cyperus rotundus L Eco physiology and control of Convolvulus arvensis L Biology and control of Bidens aurea Ait Sheriff. New herbicides to control perennial grasses. Soil management and perennial weeds. Perennial weeds in Argentina Diplotaxis tenuifolia Senecio madagascariensis Senecio grisebachii three perennial weeds now expanding in Argentina. Perennial weeds in Brazil. Perennial weeds in Colombia. Perennial weeds in Chile. Perennial weeds in Ecuador. Perennial weeds in Paraguay. Perennial weeds in Peru. Perennial weeds in Uruguay. Perennial weeds in USA. *Tissue Culture of Selected Tropical Fruit Plants* Roberto Jona, U. G. Menini, Food and Agriculture Organization of the United Nations, 1987

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.

Root and Tuber Crops, Plantains, and Bananas in Developing Countries Food and Agriculture Organization of the United Nations, 1988 **Soil Solarization and Integrated Management of Soilborne Pests** Food and Agriculture Organization of the United Nations, 1998 *Litchi Cultivation* Víctor Galán Saúco, U. G. Menini, 1989 Naast informatie over de diverse teeltaspecten wordt informatie verschaft over historische achtergronden het economisch belang de

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

National Union Catalog ,1982 Includes entries for maps and atlases **Jessenia and Oenocarpus** Michael J. Balick,1988 *Cowpea Genetic Resources* N. Q. Ng,L. M. Monti,1990 THE GENETIC RESOURCE ITALIAN CONTRIBUTIONS THE JOINT COLLABORATIVE PROJECT ON COWPEA GERMPLASM COLLECTION AND EVALUATION GERMPLASM EXPLORATION AND COLLECTION CHEMICAL CHARACTERIZATION AND EVALUATION CYTOLOGY AND HISTOLOGY BIOTECHNOLOGY Landbouwdocumentatie ,1982

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