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New Book

Fruits:

Growth, Nutrition, and Quality

Edited by Ramdane Dris, PhD

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 Science & Technology



Book Summary: Over recent years worldwide climatic changes have raised concerns about whether they will exert potential changes to fruit yields and production systems. To address these concerns Fruits: Growth, Nutrition, and Quality pulls together into one volume a series of papers describing comprehensive research on the influence of different growing conditions on the production and quality of fruits. Well known experts discuss in detail the full spectrum of issues involving plant growth, development, mineral nutrition, production, and quality improvement of fruits. Fruits: Growth, Nutrition, and Quality is a text for educators, growers, researchers, and students. It contains the latest information from a multitude of sources on how to best maintain nutritional integrity while maximizing both fruit quality and yield of many varieties of fruits. There are chapters on the influence of the soil, weed, disease, and insect control through to those concerned with harvesting and optimal postharvest storage. This book details the essential knowledge you need to have about fruits for their optimal growth and quality. Growth, Nutrition, and Quality gathers together into one volume vital fruit growing information, making it an essential resource for educators, horticulturists, food technologists, agriculturalists,

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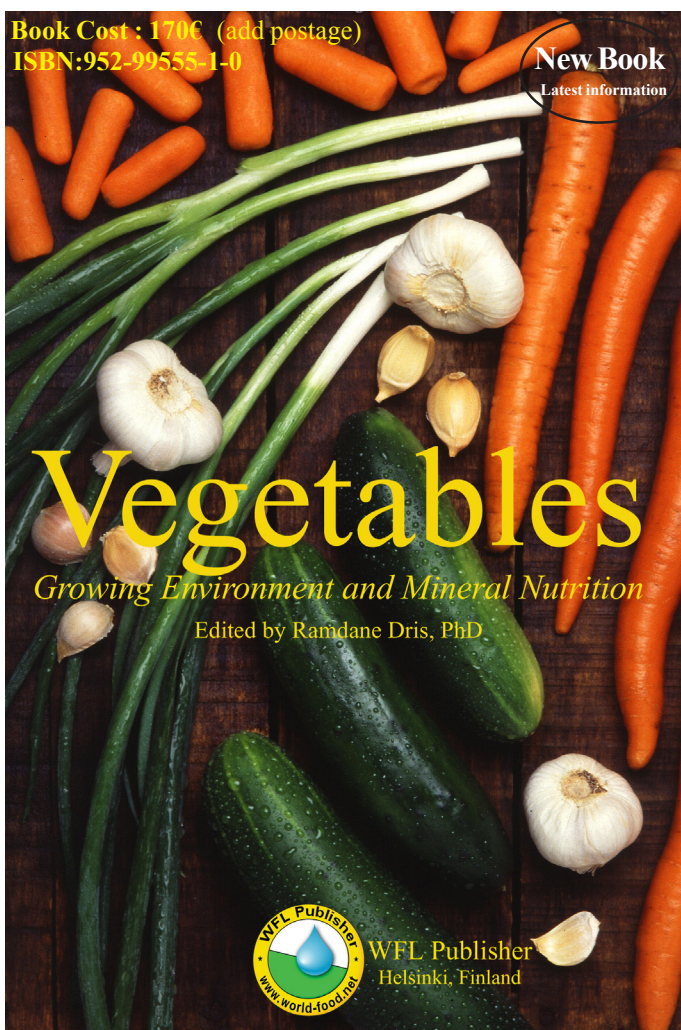
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Book Summary: Over the next 30 years, agriculture will be called upon to sustain an additional 2 billion people using an increasingly fragile and fast disappearing natural resource base. Agricultural research has the potential to reduce want and famine, by boosting agricultural productivity. The challenge is to develop and implement technologies that are able to provide food security through increased yields and improved nutritional quality, while simultaneously protecting the environment from degradation, and addressing consumer concerns regarding food safety. Vegetables are important produce for human beings because they are nutritious food and also play a great role in improving health. Vegetables are vital sources of vitamins, minerals, dietary fibers, and many other bioactive molecules conferring the beneficial health effects. A vegetable rich diet can reduce a number of chronic diseases such as obesity, diabetes, cancer and other diseases that are linked to food nutrition. The importance of vegetables in human nutrition has already stimulated consumer interest, and there are many different types of vegetable consumption including salad, fresh-cut, and processed vegetables. This book provides a comprehensive account of some of the best approaches to maximizing the quality, nutrition, and yield in vegetable production through the amalgamation of traditional and innovative technologies. Crop protection, biotechnological innovation, tillage equipment, field preparation, seeds and transplant systems, irrigation and spraying practices, harvest and postharvest handling, season extension, and environmentally sensitive ways of handling pests, diseases, weeds, and wildlife are all thoroughly documented and referenced, providing a valuable resource for everyone interested in vegetable production systems.

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Book Summary

The world today is characterized by an exponential growth in world population, industrialization, pollution, food production and depletion of our natural resources. If this trend continues unchanged, there is almost a unanimous consensus that the limits to growth on this planet will be reached sometime within the next one hundred years. The most probable result will be a rather a sudden and uncontrollable decline in both, population and industrial capacity. However, this doomsday scenario will materialize only if our present way of doing things will not change. Since there are ample evidence of mankind's ingenuity and social flexibility, we can safely assume that it is possible to alter these growth trends and to establish a condition of ecological and economic stability that is sustainable far into the future. The introduction of new technologies hold the promise to raise the limits to growth. There is also a growing concern that our increasing reliance on intensive farming systems is having an adverse effect on human health. More importantly, the application of biotechnology and related technologies has the potential to broaden the scope of crop production beyond conventional food markets. Biotech-based processing technologies, it is hoped, will lead to the development and conversion of crop-based substrates into non-food value-added products. The expectation is that these crop development technologies will create new horizons for crop improvement and product development. In this vision of the farming future, scientific research and technology development will create technology/information driven value-added products that will lead to the development of new business systems capable of value creation and value capture at the farm gate. Certainly it appears that agriculture has much to gain by borrowing advances from biotechnology. However, it remains to be seen whether such a radical departure from the accepted norms of conventional farming practice - whatever their environmental impacts - is acceptable to producer and consumer alike. If you wish to purchase the book, please contact WFL Publisher . Meri-Rasilantie 3 C, Fin-00980 Helsinki Finland. Tel/Fax: 00 358 9 75 92 775, E-mail: Info@world-food.net

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Crops

Growth, Quality and Biotechnology

Editor: Ramdane Dris PhD.

Foreward

The world today is characterized by an exponential growth in world population, industrialization, pollution, food production and depletion of our natural resources. If this trend continues unchanged, there is almost a unanimous consensus that the limits to growth on this planet will be reached sometime within the next one hundred years. The most probable result will be a rather a sudden and uncontrollable decline in both, population and industrial capacity. However, this doomsday scenario will materialize only if our present way of doing things will not change. Since there are ample evidence of mankind's ingenuity and social flexibility, we can safely assume that it is possible to alter these growth trends and to establish a condition of ecological and economic stability that is sustainable far into the future. The introduction of new technologies hold the promise to raise the limits to growth. The challenge is enormous because the globalization process has introduced industrial agriculture, which many consider as a major factor that is responsible for devastating our land, water, and air, which may threaten the sustainability of our biosphere. One of the characteristics of the present agriculture of the developed countries almost worldwide is the conversion from agrarian, local, fully integrated food systems to industrialized, monocultured agricultural production. While the roots of the industrial takeover can be discussed and evaluated, there is a wide consensus that this process has brought a number of negative effects. It manifests itself, among others, in contaminated soils and ground waters, polluted air, food-borne illness, toxic chemicals in foods, animal feed and fiber and myriad other environmental problems that effect, not only quality, but more important, food safety. Moreover, the industrialized food production has created a distance between the consumer and food production, resulting in consumers lining up in supermarkets and array of slickly food products about which they know very little. At the same time, consumers are becoming more involved in food marketing systems, demanding levels of safety assurance, purity and authenticity and even information on production or environmental practices. Food safety is only one of the factors (albeit a major one) that is associated with current agriculture. Sustainability is another factor that requires our attention. There is also a growing concern that our increasing reliance on intensive farming systems is having an adverse effect on human health. Agrichemical over usage and the agricultural wastes, that are the by-products of our industrial agriculture systems, are finding their way into our atmosphere, waterways and ground water. The discovery of persistent synthetic compound residues in human tissues has revived fears that one consequence of chronic chemical pesticide exposure is a heightened risk of developing a variety of cancers, and or nervous system disorders. Similarly, the concern has been voiced that the use of antibiotics in food animals may select for bacteria resistant to antibiotics used in human health; the fear being that these antibiotic resistant microbes could spread via food to humans so causing human infection. More importantly, the application of biotechnology and related technologies has the potential to broaden the scope of crop production beyond conventional food markets. Biotech-based processing technologies, it is hoped, will lead to the development and conversion of crop-based substrates into non-food value-added products. These could include, among others, novel proteins and compounds, market competitive bio-based fuels (e.g., ethanol) and assorted materials (e.g., plastics). The expectation is that these crop development technologies will create new horizons for crop improvement and product development. In this vision of the farming future, scientific research and technology development will create technology/information driven value-added products that will lead to the development of new business systems capable of value creation and value capture at the farm gate. Even so, innovative marketing and branding strategies will still be required to demonstrate the benefits of such technologydriven differentiated product value. For while the change from traditional commodity to value-added production systems will arrive sooner than later, it is unclear what impacts such innovations will have on the farming community – similar hopes for new farm technologies not having materialized in the past. Certainly it appears that agriculture has much to gain by borrowing advances from biotechnology. However, it remains to be seen whether such a radical departure from the accepted norms of conventional farming practice - whatever their environmental impacts - is acceptable to producer and consumer alike. If you wish to purchase the book, please contact WFL Publisher . Meri-Rastilantie 3 C, Fin-00980 Helsinki Finland. Tel/Fax: 00 358 9 75 92 775, E-mail: Info@world-food.net.

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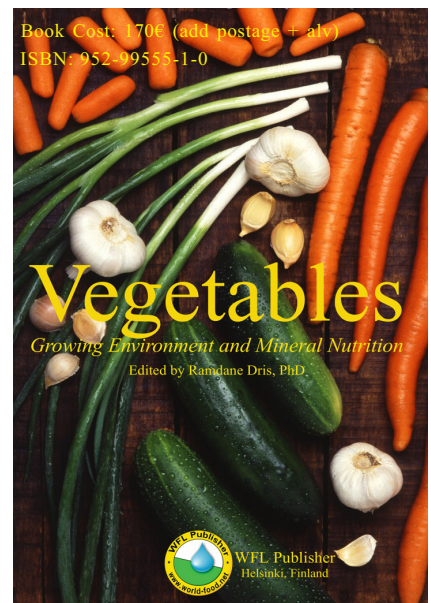
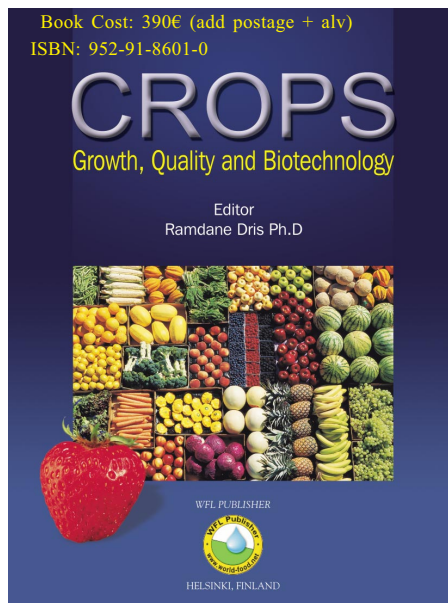
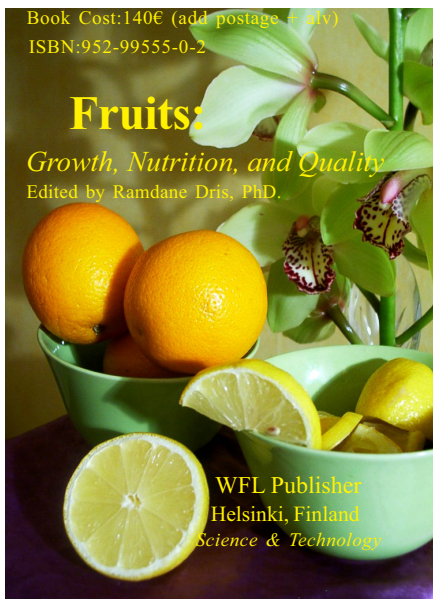
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