

Achieving sustainable cultivation of sugarcane

Volume 1: Cultivation techniques, quality and sustainability

Edited by Professor Philippe Rott, University of Florida, USA



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Achieving sustainable cultivation of sugarcane Volume 1

Cultivation techniques, quality and sustainability

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Endorsement:

“Although there have been a number of books published on sugarcane production, none are current enough to capture more recent scientific results and none of those texts address the problems of achieving sustainability of sugarcane production. The proposed content and contributing scientists are excellent choices for producing a text that will be highly relevant for sugarcane scientist, students and producers.”

Dr Paul H. Moore, Hawaii Agricultural Research Center, USA; co-editor of Sugarcane: Physiology, Biochemistry and Functional Biology

Description:

Sugarcane is the source of over three quarters of the world's sugar, and is grown widely in the tropics and sub-tropics. Despite rising demand, average yields have not increased significantly, partly because of continued vulnerability to pests and diseases. In addition, cultivation has been seen as damaging biodiversity and soil health with a negative effect on both yields and the environment. This volume summarises the wealth of research addressing these challenges.

Volume 1 reviews cultivation techniques and sustainability issues. Part 1 summarises current best practice in sugarcane cultivation across the value chain, from planting through to post-harvest operations. Part 2 looks at ways of measuring the environmental impact of sugarcane cultivation as well as ways of supporting smallholders.

With its distinguished editor and international team of expert authors, this will be a standard reference for sugarcane scientists, growers, government and non-governmental agencies responsible for supporting and monitoring the impact of sugarcane cultivation. It is accompanied by a companion volume reviewing breeding, pest and disease management.

Key features:

- Provides a comprehensive review of best practice in sugarcane cultivation across the value chain from planting through to post-harvest operations
- Assesses alternative uses of sugarcane for bioenergy and other applications
- Assesses the environmental impact of sugarcane cultivation

Audience:

Academics researching sugarcane; sugarcane growers; government and non-governmental agencies supporting or monitoring the impact of sugarcane cultivation

Editor details:

Dr Philippe Rott is Professor of Plant Pathology in the Everglades Research and Education Center at the University of Florida. He previously conducted research at CIRAD (the French Agricultural Research Center for International Development) for over three decades. Professor Rott is currently Chair of the Executive Committee of the International Society of Sugarcane Technologists. He has written widely on sugarcane diseases.

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