

BURLEIGH DODDS SERIES IN AGRICULTURAL SCIENCE

Achieving sustainable cultivation of bananas

Volume 1: Cultivation techniques

Edited by Professor Gert H. J. Kema
Wageningen University and Research, The Netherlands
Professor André Drenth, University of Queensland, Australia



 burleigh dodds
SCIENCE PUBLISHING

NOW AVAILABLE

NEW!

About the book

This volume reviews key recent research on improving banana cultivation. Part 1 reviews current challenges in banana production. Part 2 surveys ways of improving cultivation practices across the value chain, from propagation to harvesting, packaging and ripening. The final part of the book assesses ways of measuring and improving the environmental impact of banana cultivation.

About the editors

Dr Gert Kema is a Senior Scientist at Plant Research International, Wageningen, The Netherlands and Professor in Tropical Plant Pathology at Wageningen University and Research, The Netherlands.

Dr André Drenth is Professor in Tropical Plant Pathology and theme leader for crop protection in the Centre for Horticultural Science at the Queensland Alliance for Agriculture and Food Innovation (QAAFI), at the University of Queensland.

Achieving sustainable cultivation of bananas Vol 1: Cultivation techniques

Available in print and digital formats:

ISBN - print 978-1-78676-156-9

Pages 378

Pub. Date October 2018

Price £180/\$235/€215/C\$305

Series No AS40

Order via our online bookshop at www.bdspublishing.com, your usual book supplier, or pass to your librarian.

Enquiries to info@bdspublishing.com

For a complete list of titles visit www.bdspublishing.com

T (UK): +44 (0)1223 839365

T (US): +1 215-928-9112

www.bdspublishing.com

E: info@bdspublishing.com

 [@bdspublishing](https://twitter.com/bdspublishing)

 Burleigh Dodds Science Publishing

 burleigh dodds
SCIENCE PUBLISHING

Achieving sustainable cultivation of bananas - Vol. 1: Cultivation techniques

Edited by Prof. H. J. Gert Kema, Wageningen University and Research, The Netherlands and Prof. André Drenth, University of Queensland, Australia

Part 1 Banana production and its challenges

1. The origin, domestication and dispersal of bananas: Hugo Volkaert, National Center for Genetic Engineering and Biotechnology, Thailand
2. Understanding the banana industry: monoculture and beyond: Dan Koeppel, Independent Journalist and Researcher, USA
3. Banana cultivation in Africa: W. K. Tushemereirwe and J. Kubiriba, National Agricultural Research Laboratories, Uganda
4. Challenges and opportunities for smallholders in banana value chains: William Tinzaara, Bioversity International, Uganda; Dietmar Stoian, Bioversity International, France, Walter Ocimati, Enoch Kikulwe and Gloria Otieno, Bioversity International, Uganda; and Guy Blomme, Bioversity International, Ethiopia

Part 2 Improving practices across the banana value chain

5. A functional approach to bunch formation in banana: D. W. Turner, School of Agriculture and Environment, The University of Western Australia, Australia; and D. J. Gibbs, Consultant, Australia
6. Banana plant propagation methods: Sharon D. Hamill, Department of Agriculture and Fisheries, Australia
7. Conserving banana germplasm through field genebanks: Mike Smith, Queensland Department of Agriculture and Fisheries, Australia

8. Good agricultural practices: an end or a starting point for more sustainable banana production?: Charles Staver, Bioversity International, France
9. Challenges in cultivation of bananas in the subtropics: Víctor Galán Saúco, Instituto Canario de Investigaciones Agrarias, Spain
10. Nutrition and soil management in banana cultivation: Jetse J. Stoorvogel, Wageningen University, The Netherlands; and Rafael A. Segura, CORBANA S.A., Costa Rica
11. Harvesting and packaging of bananas: Juan José Aycart, Dole, Ecuador
12. Ripening systems for bananas: Frits Popma, Popma Fruit Expertise, The Netherlands

Part 3 Assessing and improving sustainability

13. Life cycle assessment and carbon footprint of banana cultivation: Louis Bockel, Laure-Sophie Schiettecatte and Orane Debrune, Food and Agriculture Organization (FAO), Italy
14. Sustainable banana cultivation: from standards to multiple solutions: Sietze Vellema and Kees Jansen, Wageningen University, The Netherlands
15. Organic banana cultivation and sustainability: Frans Wielemaker, Consultant (formerly Director of Research at Dole Fresh Fruit International), Costa Rica

