

Advances in Conservation Agriculture

VOLUMES 1-3

NEW!

Advances in Conservation Agriculture - Volume 3

Adoption and Spread

Edited by: Professor Amir Kassam, University of Reading, UK and Moderator, Global Conservation Agriculture Community of Practice (CA-CoP), FAO, Rome, Italy

KEY FEATURES

- Summarises current research on the adoption of Conservation Agriculture (CA) principles in different regions around the world
- Highlights the emergence of CA as a key alternative to tillage-based agriculture
- Reviews the challenges of effective implementation of CA in different contexts (e.g. drier conditions, poor soil quality)

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4. Conservation Agriculture in Central America, the Caribbean and Mexico: *Jose Benites, Independent Consultant on Land and Water, Peru*
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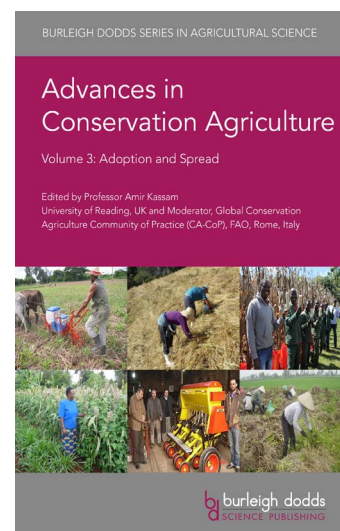
Editor biography

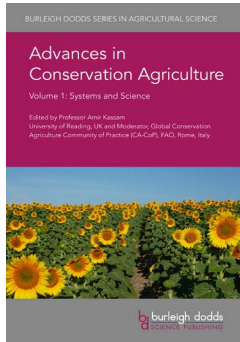
Professor Amir Kassam is Visiting Professor at the University of Reading (UK) and Moderator of the FAO-hosted Global Platform for Conservation Agriculture Community of Practice (Global CA-CoP). He is a Fellow of the Royal Society of Biology (UK) and has received an OBE from the British Government for services to tropical agriculture and to rural development. Prof. Kassam is Chair of the International Conservation Agriculture Advisory Panel for Africa (ICAAP-Africa), Member of the European Conservation Agriculture Federation (ECAAF) and Vice-Chair of the Conservation Agriculture Association for the UK (CA-UK).

What Others Are Saying...

"With comprehensive global coverage, this remarkable compilation will stand as a milestone on the road to transforming agriculture, illustrating how innovative farmers around the world are adapting their practices to ditch the plow, cover up, and grow diversity."

David R. Montgomery, author of Dirt: The Erosion of Civilisations and Growing a Revolution: Bringing Our Soil Back to Life





Advances in Conservation Agriculture - Volume 1 Systems and Science

Editor: Professor Amir Kassam, University of Reading, UK and Moderator, Global Conservation Agriculture Community of Practice (CA-CoP), FAO, Rome, Italy

This volume summarises research on key components for successful CA including no-till techniques, soil cover and cropping systems as well as the role of livestock and agroforestry.

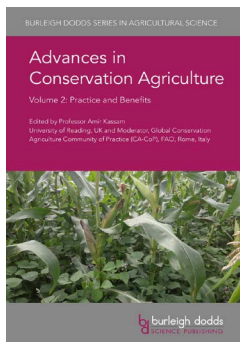
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CHAPTER TITLES

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Advances in Conservation Agriculture - Volume 2 Practice and Benefits

Editor: Professor Amir Kassam, University of Reading, UK and Moderator, Global Conservation Agriculture Community of Practice (CA-CoP), FAO, Rome, Italy

This volume reviews soil management, crop nutrition and irrigation, pest and disease management, as well as broader issues such as managing carbon, biodiversity and ecosystem services.

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CHAPTER TITLES

1.Practice and benefits of Conservation Agriculture systems: Amir Kassam, University of Reading, UK; and Laila Kassam, Animal Think Tank, UK; 2.Crop and cropping systems management practices and benefits in Conservation Agriculture systems: Muhammad Farooq, Sultan Qaboos University, Oman; Ahmad Nawaz, Bahauddin Zakariya University, Pakistan; et al.; 3.Soil management practices and benefits in Conservation Agriculture systems: Michele Pisante, University of Teramo, Italy; Angelica Galieni, Council for Agricultural Research and Economics and Research Centre for Vegetable and Ornamental Crops, Italy; Gottlieb Basch, University of Évora, Portugal; et al.; 4.Weed management practices and benefits in Conservation Agriculture systems: Gottlieb Basch and Fernando Teixeira, University of Évora, Portugal; and Sjoerd W. Duiker, Penn State University, USA; 5.Insect pest and disease management practices and benefits in Conservation Agriculture systems: a case of push-pull practice: Z. R. Khan, International Centre of Insect Physiology and Ecology (icipe), Kenya; A. W. Murage, Kenya Agricultural and Livestock Research Organization (KALRO), Kenya; et al.; 6.Nutrient management practices and benefits in Conservation Agriculture systems: Stephane Boulakia, Florent Tivet and Olivier Husson, Centre de coopération Internationale en Recherche Agronomique pour le Développement (CIRAD), France; et al.; 7.Carbon management practices and benefits in Conservation Agriculture systems: Carbon sequestration rates: João Carlos de Moraes Sá, State University of Ponta Grossa, Brazil; Florent Tivet, Centre de coopération Internationale en Recherche Agronomique pour le Développement (CIRAD), France; et al.; 8.Carbon management practices and benefits in Conservation Agriculture systems: soil organic carbon fraction losses and restoration: João Carlos de Moraes Sá, State University of Ponta Grossa, Brazil; Florent Tivet, CIRAD, France; Rattan Lal, The Ohio State University, USA; et al.; 9.Biodiversity management practices and benefits in Conservation Agriculture systems: Scott Day, Treelane Farms Ltd, Canada; Ademir Calegari, Agricultural Research Institute of Paraná State (IAPAR), Brazil; et al.; 10.Conservation Agriculture: climate change mitigation and adaptation benefits: Emilio J. Gonzalez Sanchez, Universidad de Córdoba, Spain; Oscar Veroz-Gonzalez, Asociación Española Agricultura de Conservación. Suelos Vivos (AEAC.SV), Spain; et al.; 11.Benefits of Conservation Agriculture to farmers and society: Patrick Wall, Independent Consultant – Sustainable Agricultural Systems, Mexico; Christian Thierfelder, International Maize and Wheat Improvement Center (CIMMYT), Zimbabwe; et al.; 12.Social benefits of Conservation Agriculture systems: Rafael Fuentes Llanillo, Tiago Santos Telles and Dimas Soares Junior, Agricultural Research Institute of Paraná State (IAPAR), Brazil; et al.; 13.Harnessing ecosystem services with Conservation Agriculture: Amir Kassam, University of Reading, UK; Emilio J. Gonzalez Sanchez, Universidad de Córdoba, Spain; et al.; 14.Rehabilitating degraded and abandoned agricultural lands with Conservation Agriculture systems: Telmo Jorge Carneiro Amado, Federal University of Santa Maria, Brazil; et al.

What Others Are Saying...

“This edifying book is a compendium of much of what we have learnt across the world about CA... It will serve as an immensely valuable source of reference – and inspiration - for all those who are committed to putting the world’s food systems on a truly sustainable footing. It is with great pleasure, therefore, that I commend this book to you.”

Qu Dongyu, Director General of the UN Food and Agriculture Organization (FAO)