

Advances in Conservation Agriculture

Volume 1: Systems and science

Edited by Amir Kassam
University of Reading, UK



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RNK - Conservation of the environment,
TVF - Sustainable agriculture, TVG -
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New title information

Advances in Conservation Agriculture Volume 1

Systems and science

Amir Kassam, University of Reading, UK

Endorsement:

"This is an important, timely and authoritative collection on the values of Conservation Agriculture worldwide. Great advances have been made in recent years over a range of approaches and systems to improve both the productivity of agricultural systems and their positive contributions to ecosystem services and natural capital. Conservation Agriculture has been taken up by millions of farmers, fitting methods to their particular circumstances to produce sustainable models of food production."

Jules Pretty, Professor of Environment and Society, University of Essex, UK

Description:

This volume summarises research on key components for successful Conservation Agriculture (CA).

Chapters review the latest research on ways of optimising no-till techniques to minimise soil disturbance in relation to seeding, weeding and other operations. Chapters also review ways to improve soil health in CA, including mulch cover, cover crops, rotations and intercropping.

The book also includes case studies on optimising CA in particular systems, including rice, root, tuber and horticultural crops as well as integrating livestock in CA systems. The book concludes by looking at certification schemes and institutional support to promote good CA practice.

Key features:

- Reviews how to reconcile no-till techniques to minimise soil disturbance with operations such as seeding, weeding and harvesting.
- Assesses the latest evidence on improving soil health through the use of mulch cover, cover crops, rotations and intercropping.
- Includes case studies reviewing current studies on optimising CA in rice, root, tuber and horticultural crops as well as integrating livestock in CA systems.

Audience:

Crop scientists researching low-input and organic agriculture, soil scientists, national organisations responsible for improving agricultural practices and sustainability.

Editor details:

Professor 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 rural development. Prof. Kassam is Chair of the International Conservation Agriculture Advisory Panel for Africa (ICAAP-Africa) and Vice-Chair of the Conservation Agriculture Association for the UK (CA-UK). He is former Chair of the Aga Khan Foundation (UK), the FOCUS Humanitarian Assistance Europe Foundation and the Tropical Agriculture Association (TAA). He has held senior positions at international organisations such as FAO and CGIAR and has published widely on Conservation Agriculture.

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Related products:

- Advances in Conservation Agriculture Volume 2, 978-1-78676-268-9, 26 Jul 2019, GBP 150.00, EUR 180.00, USD 195.00, CAD 255.00, and AUD 270.00
- Assessing the environmental impact of agriculture, 978-1-78676-228-3, 21 Jun 2019, CAD 270.00, USD 210.00, EUR 190.00, GBP 160.00, and AUD 290.00
- Improving organic crop cultivation, 978-1-78676-184-2, 30 Nov 2018, GBP 210.00, EUR 250.00, USD 275.00, CAD 355.00, and AUD 380.00
- Managing soil health for sustainable agriculture Volume 1, 978-1-78676-188-0, 06 Aug 2018, GBP 160.00, EUR 190.00, USD 210.00, CAD 270.00, and AUD 290.00
- Managing soil health for sustainable agriculture Volume 2, 978-1-78676-192-7, 06 Aug 2018, GBP 200.00, EUR 240.00, USD 260.00, CAD 340.00, and AUD 360.00