Publication date
21 Apr 2026

Price
£165 / $215 / C$280 / €200 / A$295

ISBN
Hardback: 978-1-83545-120-5
PDF: 978-1-83545-122-9
ePub: 978-1-83545-121-2

Format
152 × 229 mm / 6 × 9 in, 500 pages

Illustrations
Color tables, photos and figures

Series
Burleigh Dodds Series in Agricultural Science: no. 176

BIC/THEMA classification
RBGB - Soil science, sedimentology,
TVK - Agronomy & crop production,
TVF - Sustainable agriculture

Distributors
INGRAM Publisher Services UK
Print books (exc. US and Canada)

Taylor & Francis Group an informa business
eBooks (worldwide)

Updated 09/12/25

New title information

Cover crops for sustainable soil management

Edited by: Professor Sjoerd W. Duiker, Penn State University, USA and Dr Andy Clark, formerly SARE-USDA, USA

Description:

There is a growing body of research on cover crops as a key tool in regenerative agriculture, including their multifunctional role in making agricultural systems more resilient in the face of climate change.

Cover crops for sustainable soil management provides a comprehensive review of the varied roles of cover crops in promoting soil health, how best to deploy them, as well as optimising use of different classes of cover crops in promoting soil health. The book also discusses the use of different classes of cover crops, including cool and warm season leguminous and gramineous cover crops, as well as non-leguminous broadleaf cover crops.

Key features:

- Provides a comprehensive overview of the main types of cover crop species, including leguminous, gramineous and non-leguminous broadleaf cover crops
- Reviews the role of cover crops in helping to promote soil health and deliver key ecosystem services
- Reviews recent developments in the management of cover crops

Audience:

University and other researchers in crop and soil science departments researching regenerative, low-input and organic agriculture, farmers and growers, as well as government and other agencies supporting the transition to a more sustainable agriculture.

Editors' details:

Dr Sjoerd W. Duiker is Professor of Soil Management and Applied Soil Physics at Penn State University, USA. He has made significant contributions to both research and extension in developing more sustainable soil management practices in such areas as no-till systems, the use of cover crops, mulches and more diverse crop rotations. He is a member of the Governing Board of the Northeast Cover Crops Council which brings together universities, farmers, government agencies and others to optimise cover crop use in the north-eastern states of the USA.

Dr Andy Clark recently retired as National Communications Director of the United States Department of Agriculture (USDA) Sustainable Agriculture Research and Education (SARE) Program. He led the communications arm of the SARE Program that was instrumental in developing and disseminating sustainable crop and livestock management practices in the United States. As Communications Director, Dr Clark oversaw the development of more than 40 publications, including editing the Third Edition of the SARE publication *Managing Cover Crops Profitably*, widely regarded as the standard reference for farmers, agronomists and others interested in adoption of cover crops on farms in the United States.

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Part 1 Understanding the role of cover crops

- 1.The role of cover crops in optimising nutrient cycles: *Yajun Peng, University of Guelph, Canada*;
- 2.The role of cover crops in improving soil biological health: *Michelle Wander, University of Illinois, USA*;
- 3.The role of cover crops in improving biodiversity: *Deirdre Prischmann-Voldseth, North Dakota State University, USA*;
- 4.The role of cover crops in pest and disease control: *Nic Irvin, University of California-Riverside, USA*;
- 5.The role of cover crops in weed control: *John Wallace, Penn State University, USA*;
- 6.The role of cover crops in forage production: *Heather Darby, University of Vermont, USA*;
- 7.Assessing the effects of cover crops on cash crop yields: *Inderjot Chahal, University of Guelph, Canada*;

Part 2 Managing cover crops

- 8.Cover crop decision support tools: *Victoria Ackroyd, USDA-ARS, USA*;
- 9.Key challenges in terminating cover crops: *Alyssa Essman, Ohio State University, USA*;

Part 3 Cover crop species

- 10.Cool season leguminous cover crops: *Masoud Hashemi, University of Massachusetts, USA*;
- 11.Warm season leguminous cover crops: *Andrew Price, USDA-ARS, USA*;
- 12.Cool season gramineous cover crops: *Humberto Blanco, University of Nebraska-Lincoln, USA*;
- 13.Warm season gramineous cover crops: *Matt Ryan, Cornell University, USA*;
- 14.Non-leguminous broadleaf cover crops: *Christina Curell, Michigan State University, USA*;

Part 4 The future of cover crops

- 15.Strategies to increase cover crop adoption: *Ken Staver, University of Maryland, USA*;
- 16.The future of cover crops: opportunities and challenges: *Sjoerd W. Duiker, Penn State University, USA and Andy Clark, formerly SARE-USDA, USA*;

Related products:

Advances in Conservation Agriculture Volume 1, 978-1-78676-264-1, 21 Jan 2020, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00

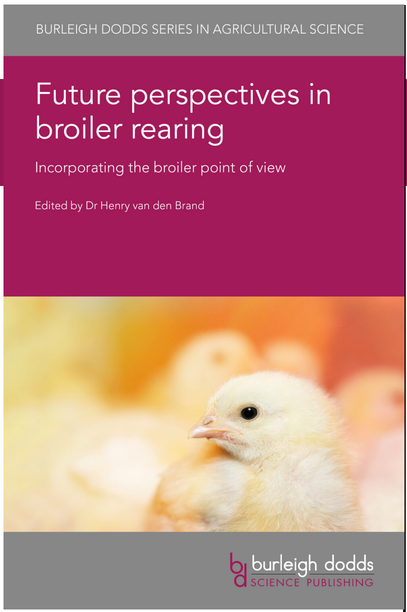
Advances in Conservation Agriculture Volume 2, 978-1-78676-268-9, 21 Jan 2020, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00

Improving soil health, 978-1-78676-670-0, 11 Oct 2022, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00

Managing soil health for sustainable agriculture Volume 1, 978-1-78676-188-0, 06 Aug 2018, AUD 290.00, CAD 270.00, EUR 190.00, GBP 160.00, and USD 210.00

Managing soil health for sustainable agriculture Volume 2, 978-1-78676-192-7, 06 Aug 2018, AUD 325.00, CAD 305.00, EUR 215.00, GBP 180.00, and USD 235.00

Understanding and preventing soil erosion, 978-1-80146-379-9, 20 Aug 2024, AUD 260.00, CAD 245.00, EUR 175.00, GBP 145.00, and USD 190.00



New title information

Future perspectives in broiler rearing

Incorporating the broiler point of view

Edited by: Dr Henry van den Brand, Wageningen University, The Netherlands

Publication date
28 Apr 2026

Price
£185 / $240 / C$315 / €220 / A$335

ISBN
Hardback: 978-1-83545-149-6
PDF: 978-1-83545-151-9
ePub: 978-1-83545-150-2

Format
152 × 229 mm / 6 × 9 in, 700 pages

Illustrations
Color tables, photos and figures

Series
Burleigh Dodds Series in Agricultural Science: no. 179

BIC/THEMA classification
TVHP - Poultry farming, TVF - Sustainable agriculture, TVHB - Animal breeding

Distributors
Print books (exc. US and Canada)

eBooks (worldwide)

Updated 09/12/25

Description:

It's been estimated that more than 70 billion broilers are slaughtered globally each year to meet the growing demand for poultry meat. To uphold its position as the second most consumed meat globally, broiler production must mitigate several challenges, including the need to balance production and economic priorities with issues such as ethics, animal welfare, environmental impact and sustainability.

Future perspectives in broiler rearing: Incorporating the broiler point of view provides a comprehensive overview of conventional broiler production and considers the measures required to build a more sustainable sector. The book addresses the range of environmental and genetic factors which can influence the development of a healthy broiler chick, as well as best practices for managing the needs and maintaining the health of broilers from the hatching stage through to end of life.

Key features:

- Comprehensively addresses the major challenges facing broiler production, including antibiotic resistance and environmental impact
- Considers the role of environmental and genetic factors on healthy broiler chick development
- Reviews the range of precision farming technologies used to monitor broiler health and welfare

Audience:

Poultry scientists, breeders and producers, as well as government and private sector agencies supporting sustainable poultry production.

Editor details:

Dr Henry van den Brand is an Associate Professor of the Adaptation Physiology Group at Wageningen University and Research, The Netherlands. His research is mainly focused on the early life of poultry, with special interest in breeder management, incubation, early nutrition and thermoregulation. The aim of his research is to improve or maintain poultry health, welfare and resilience. Dr van den Brand is also a contributor of our previously published title *Embryo development and hatchery practice in poultry production* (published in 2023).

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- 2.Limitations and challenges in broiler production: environmental issues: *Casey W. Ritz, University of Georgia, USA*;
- 3.The importance of data sharing between different links in the broiler production chain: *Hasitha Priyashantha, Swedish University of Agricultural Science, Sweden*;

Part 2 Creating the best day-old broiler chick
- 4.Breeding for a resilient, sustainable and healthy broiler chicken: *Pascal Duenk, Wageningen University, The Netherlands*;
- 5.Transgenerational influences: the role of broiler breeders: *Mike Wineland, North Carolina University, USA*;
- 6.The role of incubation in broiler breeding: *Itallo Conrado Sousa de Araujo, Universidade Federal de Minas Gerais, Brazil*;
- 7.The role/importance of early feeding in broiler production: *Jan Wijnen, HatchTech, The Netherlands*;
- 8.The role/importance of in-ovo feeding in broiler production: *Mila Meijer, University of Queensland, Australia*;

Part 3 Managing the needs of broilers
- 9.Understanding the behavioural needs of broilers: *Leonie Jacobs, Virginia Tech University, USA*;
- 10.Understanding the nutritional needs of broilers: *Evelyne Delezie, ILVO, Belgium*;
- 11.Understanding the environmental needs of broilers: *Edgar Oviedo-Rondón, North Carolina State University, USA*;
- 12.Understanding the hygienic needs of broilers: *Joost van den Borne, MS Schippers, The Netherlands*;

Part 4 Challenges in broiler production
- 13.Challenges in achieving antibiotic-free broiler production: *Elijah Kiarie, University of Guelph, Canada*;
- 14.Concepts of circular broiler production: *Ollie van Hall, Wageningen University, The Netherlands*;
- 15.Challenges in achieving low input, extensive broiler production: *Claire Bonnefous, FiBL, Switzerland*;
- 16.Challenges of small-scale broiler production in a rural environment: *Essodina Talaki, University of Lome, Togo*;
- 17.The effects of heat stress in broiler production: *Okanlawon M. Onagbesan, Federal University of Agriculture Abeokuta, Nigeria*;

Part 5 Precision farming technologies in broiler production
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- 19.Use of vocalisation technology for early detection of problems in broiler production: *Gerardo José Ginovart-Panisello, La Salle Campus Barcelona, Spain*;
- 20.The potential of using volatile organic compounds (VOC) to detect problems in broiler production: *Matthias Corion, KU Leuven, Belgium*;

Part 6 Maintaining the health of broilers
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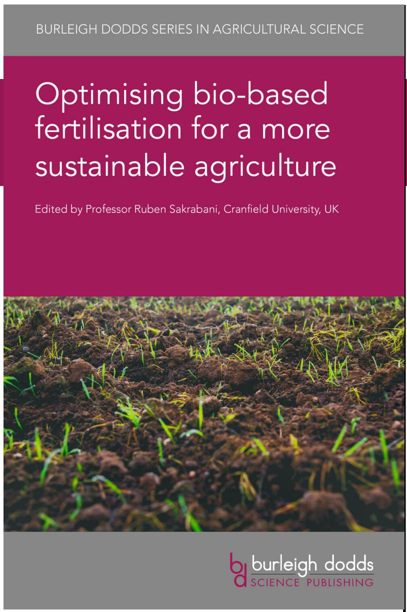
- 22.Managing health issues in broilers: first week mortality: *Serdar Özlu, Ankara University, Turkey*;
- 23.Managing health issues in broilers: leg disorders: *Wendy Muir, University of Sydney, Australia*;
- 24.Managing health issues in broilers: respiratory health: *Elena Catelli, University of Bologna, Italy*;

Part 7 Managing the end of life stage in broiler production
- 25.Humane end of life management of broilers: catching and crating: *Helen Louton, University of Rostock, Germany*;
- 26.Humane end of life management of broilers: transport, holding and stunning: *Alexandra Contreras-Jordas, IRTA, Spain*;
- 27.Managing breast myopathies in broiler production: *Martina Bordini, University of Bologna, Italy*;

Related products:

Achieving sustainable production of poultry meat Volume 1, 978-1-78676-064-7, 31 Dec 2016, AUD 325.00, CAD 305.00, EUR 215.00, GBP 180.00, and USD 235.00
Achieving sustainable production of poultry meat Volume 2, 978-1-78676-068-5, 31 Jul 2017, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00
Achieving sustainable production of poultry meat Volume 3, 978-1-78676-072-2, 31 Aug 2017, AUD 290.00, CAD 270.00, EUR 190.00, GBP 160.00, and USD 210.00
Advances in precision livestock farming, 978-1-78676-471-3, 28 Jun 2022, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00
Embryo development and hatchery practice in poultry production, 978-1-80146-252-5, 30 May 2023, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00
Understanding the behaviour and improving the welfare of chickens, 978-1-78676-422-5, 29 Sep 2020, AUD 305.00, CAD 290.00, EUR 205.00, GBP 170.00, and USD 220.00



Publication date
26 May 2026

Price
£155 / $200 / C$265 / €185 / A$280

ISBN
Hardback: 978-1-83545-186-1
ePub: 978-1-83545-187-8
PDF: 978-1-83545-188-5

Format
152 × 229 mm / 6 × 9 in, 400 pages

Illustrations
Color tables, photos and figures

Series
Burleigh Dodds Series in Agricultural Science: no. 180

BIC/THEMA classification
TVF - Sustainable agriculture, TVK - Agronomy & crop production, RBGB - Soil science, sedimentology

Distributors
INGRAM Publisher Services UK
Print books (exc. US and Canada)

Taylor & Francis Group an informa business
eBooks (worldwide)

Updated 09/12/25

New title information

Optimising bio-based fertilisation for a more sustainable agriculture

Edited by: Professor Ruben Sakrabani, Cranfield University, UK

Description:

Improvements in plant nutrition and fertilisation are central to any transition to a more sustainable agriculture. In addition to ways of improving nutrient use efficiency, a key area to investigate further is the transition from relying primarily on inorganic fertilisers to a greater use of organic sources of nutrition.

Optimising bio-based fertilisation for a more sustainable agriculture provides a comprehensive overview of the recent research undertaken in this area, focussing primarily on the role of differing types of soil amendments and their contribution to improvements in soil organic matter content, nutrient availability, crop growth and yields. The book also reviews recent advances in biostimulants, such as plant growth-promoting rhizobacteria, and considers optimising their use to promote crop health and nutrient use efficiency.

Key features:

- Highlights the significant importance of supporting farmers in their transition from relying on inorganic fertilisers to utilising more organic sources of nutrition
- Considers the role of biostimulants in promoting crop nutrient use efficiency and overall crop health
- Reviews the potential contribution of particular soil amendments to soil organic matter content, nutrient availability and nutrient cycling

Audience:

University and other researchers in agricultural and environmental science, farmers, agronomists advising on fertiliser use and its environmental impact, as well as government and private sector agencies supporting the transition to a more sustainable agriculture.

Editor details:

Dr Ruben Sakrabani is Professor of Soil Chemistry in the Centre for Soil, Agrifood and Biosciences at Cranfield University, UK. He has an international reputation particularly for his research on the nutrient dynamics, resource use efficiency and reliability of organic soil amendments such as compost, manure, slurry sludge, biochar and digestates. Professor Sakrabani is an Associate Editor of *Soil Use and Management*. He is also a member of the Advisory Board of the UK Natural Environment Research Council (NERC) responsible for research funding in environmental science.

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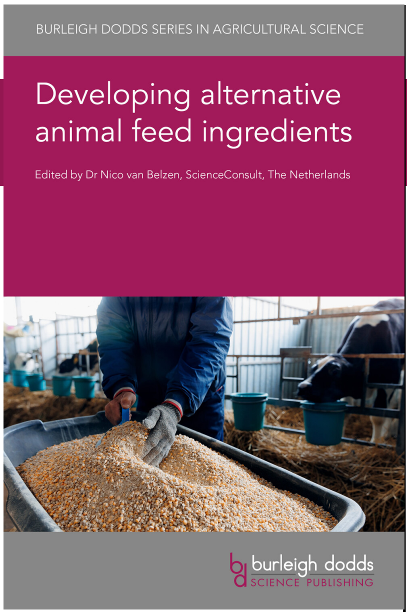
- 2.Optimising cover crops for soil health: *Rob Myers, University of Missouri, USA*;
- 3.The use of vermicompost and biochar as soil amendments: *Parveen Rupani, Cranfield University, UK*;
- 4.The potential of organo-mineral fertilisers: *Ruben Sakrabani, Cranfield University, UK*;
- 5.Optimizing use of anaerobic digestate as a soil amendment: *Christina van Midden, Agri Food & Biosciences Institute (AFBI), UK*;
- 6.Optimising poultry litter for soil improvement: *Xiuping Jiang, Clemson University, USA*;
- 7.Optimising on-farm management and use of slurry to minimise its environmental impact: *Lisa Norton, UK Centre for Ecology and Hydrology, UK*;
- 8.Optimising use of frass as a soil amendment: *David Houben, UniLaSalle, France*;

Part 2 Advances in biostimulants

- 9.Optimising use of biostimulants: using plant growth-promoting rhizobacteria (PGPR) to promote crop nutrient use efficiency and other properties: *S. Pereira, Universidade Catolica Portuguesa, Portugal*;
- 10.Understanding and promoting existing communities of plant growth-promoting rhizobacteria (PGPR) in agricultural soils: *Zakaria M. Solaiman, University of Western Australia, Australia*;
- 11.Optimising functionality of phosphate-solubilising microorganisms (PSM) in promoting crop nutrient use efficiency and health: *Nelly Raymond, University of Copenhagen, Denmark*;
- 12.Understanding and optimising the role of cyanobacteria in promoting crop health and nutrient use efficiency: *Nouriddine Bouaicha, University of Paris-Saclay, France*;
- 13.Understanding and optimising the use of amino acid-based biostimulants in promoting crop nutrient use efficiency and health: *Wenli Sun, Chinese Academy of Agricultural Sciences, China*;
- 14.Understanding and optimising the use of inorganic salts as biostimulants in promoting crop nutrient use efficiency and health: *John Havlin, North Carolina State University, USA*;
- 15.Understanding and optimising the use of algae in promoting crop nutrient use efficiency and health: *Domenico Ronga, University of Salerno, Italy*;

Related products:

Achieving sustainable crop nutrition, 978-1-78676-312-9, 18 Feb 2020, AUD 340.00, CAD 325.00, EUR 230.00, GBP 190.00, and USD 245.00
Biostimulants for sustainable crop production, 978-1-78676-336-5, 28 Jul 2020, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00
Improving nitrogen use efficiency in crop production, 978-1-80146-470-3, 12 Mar 2024, AUD 260.00, CAD 245.00, EUR 175.00, GBP 145.00, and USD 190.00
Improving soil health, 978-1-78676-670-0, 11 Oct 2022, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00
Understanding and utilising soil microbiomes for a more sustainable agriculture, 978-1-80146-474-1, 20 May 2025, AUD 280.00, CAD 265.00, EUR 185.00, GBP 155.00, and USD 200.00



New title information

Developing alternative animal feed ingredients

Edited by: Dr Nico van Belzen, ScienceConsult, The Netherlands

Publication date
19 May 2026

Price
£175 / $230 / C$300 / €210 / A$315

ISBN
Hardback: 978-1-83545-210-3
ePub: 978-1-83545-211-0
PDF: 978-1-83545-212-7

Format
152 × 229 mm / 6 × 9 in, 600 pages

Illustrations
Color tables, photos and figures

Series
Burleigh Dodds Series in Agricultural Science: no. 182

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TVH - Animal husbandry, TVF - Sustainable agriculture, TVB - Agricultural science

Distributors
INGRAM Publisher Services UK
Print books (exc. US and Canada)

Taylor & Francis Group an informa business
eBooks (worldwide)

Updated 09/12/25

Description:

Global consumption of meat and other animal-derived products has risen drastically in the last 50 years. At the same time, the livestock sector has come under scrutiny for its reliance on feed sources which carry a significant environmental impact. Alternative animal feed ingredients are seen as an increasingly popular option to meet this growing demand, whilst also ensuring that food is produced more sustainably.

Developing alternative animal feed ingredients provides a comprehensive overview of the key groups of alternative animal feed ingredients, from cereal grains and oil seeds, to animal by-products and single-cell proteins. The book also considers the key issues and challenges that must be addressed by the animal feed sector during the development of alternative animal feed ingredients, such as the need for new products to meet nutritional quality, sustainability, safety and other regulatory requirements.

Key features:

- Provides a detailed overview of the range of alternative animal feed ingredients
- Considers the potential of alternative animal feed ingredients as core ingredients or supplements in the diets of pigs and fish
- Discusses the techniques used to calculate the nutritional content and quality of alternative animal feed ingredients

Audience:

University and other researchers working in livestock science departments with a focus on nutrition, companies involved in the manufacturing of animal feed, farmers and advisers, as well as government and other private sector agencies responsible for regulating the safety of the animal feed sector.

Editor details:

Dr Nico van Belzen is Director General at ScienceConsult, The Netherlands. He is also former Director General of the International Dairy Federation (IDF), Belgium. He has occupied senior roles in both industry and research organisations, both as Head of the Research and Analysis department at the ingredients division of Campina and as Executive Director of the European Branch of the International Life Sciences Institute (ILSI). Dr van Belzen is editor of two earlier Burleigh Dodds Science volumes: *Achieving sustainable production of milk Volume 1: Safety, quality and sustainability* and *Achieving sustainable production of milk Volume 2: Milk composition, genetics and breeding* (both published in 2017).

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- 3.Key challenges in sustainability of alternative feed sources: the use of life cycle assessment (LCA): *Greg Thoma, Colorado State University, USA*;
- 4.Processing techniques for alternative feed ingredients: *Emily Burton, Nottingham Trent University, UK*;
- 5.Techniques for calculating the nutritional content/quality of alternative feed ingredients: *Katerina Theodoridou, Queen's University Belfast, UK*;
- 6.Potential of alternative feed ingredients in pig feed: *Elizabeth Hines, formerly Penn State University, USA*;
- 7.Potential of alternative feed ingredients in fish feed/aquaculture: *Valeria Caltzontzin-Rabell, Autonomous University of Querétaro, Mexico*;

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- 8.Wheat co-products as alternative feed ingredients: *Elijah Kiarie, University of Guelph, Canada*;
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- 11.Oat co-products as alternative feed ingredients: *Dawn Scholey, Nottingham Trent University, UK*;
- 12.Sorghum co-products as alternative feed ingredients: *Scott R. Beyer, Kansas State University, USA*;

Part 3 Plant co-products as alternative feed ingredients: Oil seeds

- 13.Soybean co-products as alternative feed ingredients: *Warren Rusche, South Dakota State University, USA*;
- 14.Canola/rapeseed co-products as alternative feed ingredients: *In Ho Kim, Dankook University, South Korea*;
- 15.Linseed co-products as alternative feed ingredients: *Vincenzo Tufarelli, University of Bari Aldo Moro, Italy*;
- 16.Potato co-products as alternative feed ingredients: *Huawei Su, China Agricultural University, China*;
- 17.Citrus pulp as an alternative feed ingredient: *Ratchaneewan Khiaosa-ard, University of Veterinary Medicine Vienna, Austria*;

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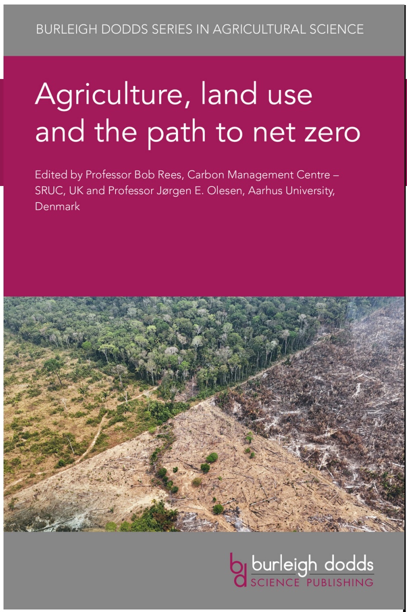
- 19.Animal by-products as an alternative feed ingredient: *Marie-Caroline Lecrenier, Walloon Agricultural Research Centre (CRA-W), Belgium*;
- 20.Fish co-products as an alternative feed ingredients: *Øystein Sæle, Institute of Marine Research, Norway*;
- 21.Seaweed and algae as an alternative feed ingredients: *Maria Hayes, Teagasc, Ireland*;
- 22.Single-cell proteins (SCP) as an alternative feed ingredients: *Helen Onyeaka, University of Birmingham, UK*;
- 23.Lanolin as an alternative feed ingredient: *Clodagh Weingart, LanoTech Ltd., UK*;

Related products:

Advances in improving animal feed safety, 978-1-83545-311-7, 25 Aug 2026, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00
Advances in pig nutrition, 978-1-80146-694-3, 25 Jun 2024, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00
Advances in poultry nutrition, 978-1-80146-731-5, 10 Sep 2024, AUD 290.00, CAD 270.00, EUR 190.00, GBP 160.00, and USD 210.00
Advances in sustainable dairy cattle nutrition, 978-1-80146-205-1, 14 Mar 2023, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00
Developing animal feed products, 978-1-78676-463-8, 15 Jun 2021, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00
Insects as alternative sources of protein for food and feed, 978-1-80146-584-7, 04 Feb 2025, AUD 270.00, CAD 255.00, EUR 180.00, GBP 150.00, and USD 195.00
Seaweed and microalgae as alternative sources of protein, 978-1-78676-620-5, 14 Sep 2021, AUD 250.00, CAD 240.00, EUR 170.00, GBP 140.00, and USD 180.00



New title information

Agriculture, land use and the path to net zero

Edited by: Professor Bob Rees, Carbon Management Centre – SRUC, UK and Professor Jørgen E. Olesen, Aarhus University, Denmark

Description:

It's been suggested that farming contributes to around 12% of global greenhouse gas (GHG) emissions, with land use associated with agriculture (such as deforestation to clear land for crop production) increasing this overall share to 25% of global GHG emissions. As the climate change emergency continues to threaten global food production and security, there is a growing need to modify or relocate existing farming systems to reduce their environmental impact and ensure a safe, sustainable and sufficient supply of food.

Agriculture, land use and the path to net zero provides a comprehensive overview of the role of agriculture in contributing to GHG emissions, including the role of farming in generating different GHGs and how these can be reduced. It also assesses ways agricultural land use can be used to offset emissions through different carbon sequestration strategies (whether through changing farming practices or restoring landscapes to optimise carbon storage). The book then reviews the challenges and opportunities faced by different regions in developing appropriate land use strategies for agriculture to achieve the goal of net zero.

Key features:

- Provides an authoritative review of current research on the ways agriculture contributes to key greenhouse gas emissions
- Outlines the range of options for adapting agricultural land use to reduce emissions and optimise carbon sequestration
- Explores the challenges and opportunities faced by different regions in developing appropriate agricultural land use strategies to achieve net zero

Audience:

University and other researchers in environmental and agricultural science, as well as government and other agencies supporting the transition to net zero in agriculture.

Editors' details:

Dr Bob Rees is Professor in Agriculture and Climate Change and Head of the Carbon Management Centre at SRUC (Scotland's Rural College), UK. With over 150 published papers, Professor Rees is internationally renowned for his research on soil carbon sequestration, agricultural greenhouse gas (GHG) mitigation, nutrient cycling and ways agriculture can adapt to climate change.

Dr Jørgen E. Olesen is Professor in Climate Change and Agriculture and Head of the Department of Agroecology at Aarhus University, Denmark. He is also an Adjunct Professor at both the University of Copenhagen, Denmark and Ganzu Agricultural University, China. He has an international reputation for his research on the effect of agriculture on the environment and how environmental change affects agroecosystems.

Publication date
23 Jun 2026

Price
£160 / $210 / C$270 / €190 / A$290

ISBN
Hardback: 978-1-83545-214-1
ePub: 978-1-83545-215-8
PDF: 978-1-83545-216-5

Format
152 × 229 mm / 6 × 9 in, 450 pages

Illustrations
Color tables, photos and figures

Series
Burleigh Dodds Series in Agricultural Science: no. 183

BIC/THEMA classification
TVF - Sustainable agriculture, TVB - Agricultural science, TVK - Agronomy & crop production, TVH - Animal husbandry

Distributors
Print books (exc. US and Canada)

eBooks (worldwide)

Updated 09/12/25

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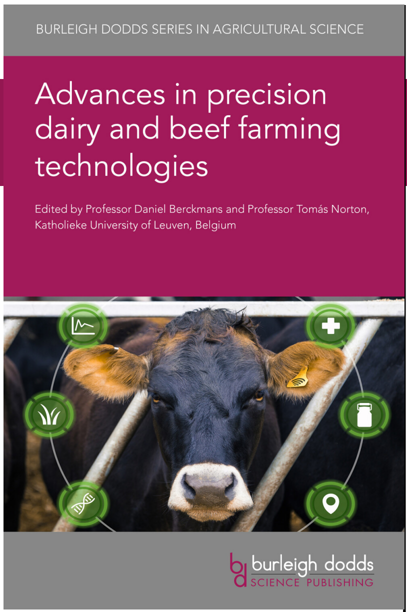

New title information

Advances in precision dairy and beef farming technologies

Edited by: Professor Daniel Berckmans and Professor Tomás Norton, Katholieke University of Leuven, Belgium

Publication date
23 Jun 2026

Price
£165 / $215 / C$280 / €200 / A$295

ISBN
Hardback: 978-1-83545-194-6
ePub: 978-1-83545-195-3
PDF: 978-1-83545-196-0

Format
152 × 229 mm / 6 × 9 in, 500 pages

Illustrations
Color tables, photos and figures

Series
Burleigh Dodds Series in Agricultural Science: no. 181

BIC/THEMA classification
TVH - Animal husbandry, TVF - Sustainable agriculture, TVB - Agricultural science

Distributors
INGRAM Publisher Services UK
Print books (exc. US and Canada)

Taylor & Francis Group an informa business
eBooks (worldwide)

Updated 09/12/25

Description:

Precision livestock farming (PLF) technologies are gaining significant momentum due to their remarkable ability to measure and monitor physiological and behavioural traits in individual animals. With this data in hand, farmers are equipped with the tools to make more informed decisions which can benefit their farm operations and also ensure that the health and welfare of their animals is optimised.

Advances in precision dairy and beef farming technologies provides a comprehensive overview of the range of PLF technologies administered in dairy and beef farming, ranging from the use of machine vision and thermal imaging techniques to monitor dairy cattle health, to robotic milking and the use of virtual herding technologies. The book also reviews recent developments in technologies used to monitor pasture quality, such as remote and proximal sensors.

This book builds on a successful earlier volume published by Burleigh Dodds Science: *Advances in precision livestock farming* (2022).

Key features:

- Reviews the range of precision livestock farming (PLF) technologies for monitoring dairy cattle health and milk quality
- Considers the applications of PLF technologies across beef and dairy production, such as the use of automated feeding technologies and those used to monitor housing/environmental conditions
- Discusses the range of supervised and unsupervised learning techniques in precision dairy farming, such as decision trees, support vector machines and neural networks

Audience:

University and other researchers in livestock science departments specialising in beef and dairy cattle, farmers, advisers and manufacturers of precision livestock farming technologies, as well as government and other private sector agencies involved in the regulation of new technologies in the agricultural sector.

Editors' details:

Professor Daniel Berckmans has been associated with the Katholieke Universiteit Leuven, Belgium for 40 years where he was Head of the M3-BIORES (Measure, Model and Manage Bioresponses) Division for over 20 years as a full professor. His team is widely regarded as a world leader in precision livestock farming, producing over 350 publications and over 450 conference papers, with 17 new products brought to market in collaboration with industrial partners and 20 patents submitted. Professor Berckmans is also editor of Burleigh Dodds Science Publishing's previous volume *Advances in precision livestock farming* (published in 2022).

Dr Tomás Norton is Associate Professor of Sustainable Precision Livestock Farming (PLF) in the Division of Animal and Human and Health Engineering and research group of M3-BIORES, at Katholieke Universiteit Leuven, Belgium. He has co-authored over 100 publications, over 50 conference proceedings and 10 book chapters. Dr Norton is also Chair of Section II and Technical Board of the International Commission of Agricultural and Biosystems Engineering (CIGR) and Co-Editor-in-Chief of the journal *Computers and Electronics in Agriculture*.

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