

Advances in measuring soil health

Edited by Professor Wilfred Otten, Cranfield University, UK



 burleigh dodds
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Advances in measuring soil health

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Endorsement:

“Soil health is an equivocal concept that takes on different meanings depending on the application and the investigator. The proposed content of this comprehensive volume will give more meaning to ‘soil health’, bringing together a range of measurement approaches, modelling and decision support tools, with an ultimate aim to improve soils.” Prof. Paul Hallett, University of Aberdeen, UK

Description:

Understanding and measuring the different dimensions of soil health is key to achieving regenerative agriculture. There has been a wealth of research on developing better analytical techniques to measure the biological, physical and chemical properties of soils.

Advances in measuring soil health reviews these developments and their implications for better management of farm soils. The volume begins by reviewing advances in measuring soil biological activity such as earthworms and fungi as indicators of soil health. The collection also surveys developments in measuring soil physical properties through advances in visual, imaging and geophysical techniques, as well as the methods used to measure chemical properties such as soil organic carbon. It concludes by looking at how measurement can be translated into farming practice through soil health indicators and decision support systems.

With its distinguished editor and expert authors, *Advances in measuring soil health* will be a standard reference for university and other researchers in soil and crop science, government and other agencies responsible for the health of agricultural soils, companies providing soil monitoring services, and farmers wishing to know more about the latest developments in soil monitoring.

Key features:

- Comprehensive overview of key advances in measuring soil biological, physical and chemical properties
- Particularly strong coverage of developments in measuring soil biological activity, including molecular techniques such as next-generation sequencing as well as improvements in measuring fauna such as earthworms, microbial and fungal communities
- Focus on ways of using analytical techniques in practice through the use of soil health indicators and decision support systems (DSS)

Audience:

University and other researchers in soil and crop science; government and other agencies responsible for the health of agricultural soils; companies providing soil monitoring services; farmers wishing to know more about the latest developments in soil monitoring.

Editor details:

Dr Wilfred Otten is Professor of Soil Biophysics at Cranfield University, UK. He was the President of the British Soil Science Society (2017-2018), and is a Fellow of the Institute of Soil Science. Professor Otten is internationally-renowned for his research on measuring and modelling physical, chemical and microbial processes in soil.

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Related products:

- Achieving sustainable crop nutrition, 978-1-78676-312-9, 18 Feb 2020, GBP 190.00, EUR 230.00, USD 245.00, CAD 325.00, and AUD 340.00
- Improving soil health, 978-1-78676-670-0, 25 Jan 2022, GBP 150.00, EUR 180.00, USD 195.00, CAD 255.00, and AUD 270.00
- 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
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