

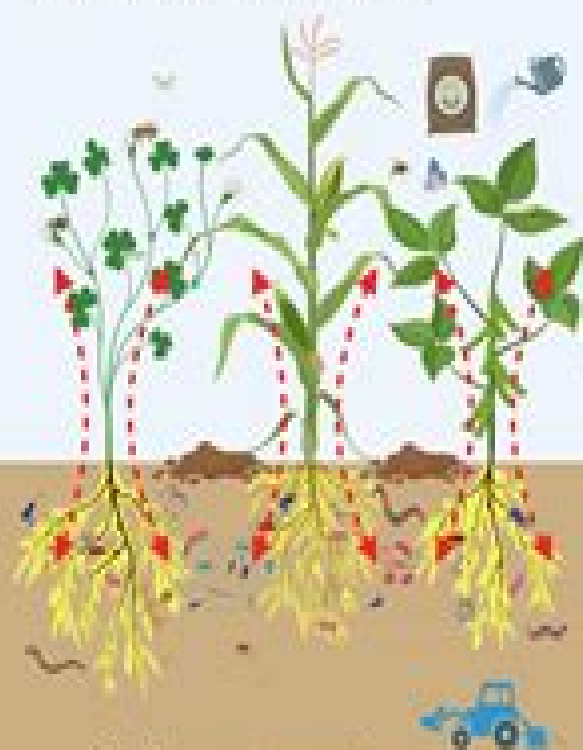
Agroecosystem engineering

Crop management

Crop identity; genotype with target traits;
crop rotation; crop mixtures

Input management

Optimized nutrient management;
intelligent fertilizer products



Soil management

Organic amendment;
minimum or reduced or bio-tillages;
soil or microbe inoculations

Extreme event



Legacies at work

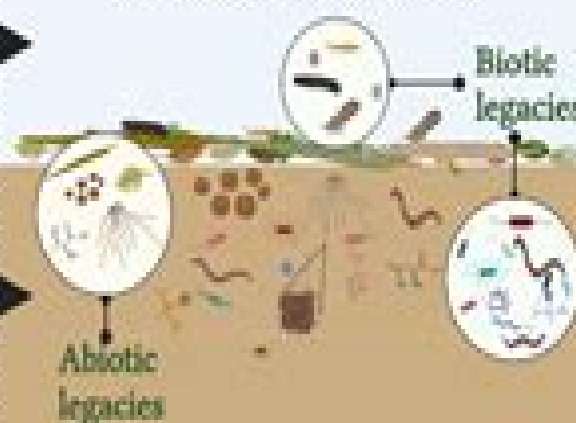
Aboveground aspects

High biomass and yield;
low incidence of disease and pest;
high quality and safety food;
high resilience to climate change

Positive legacies

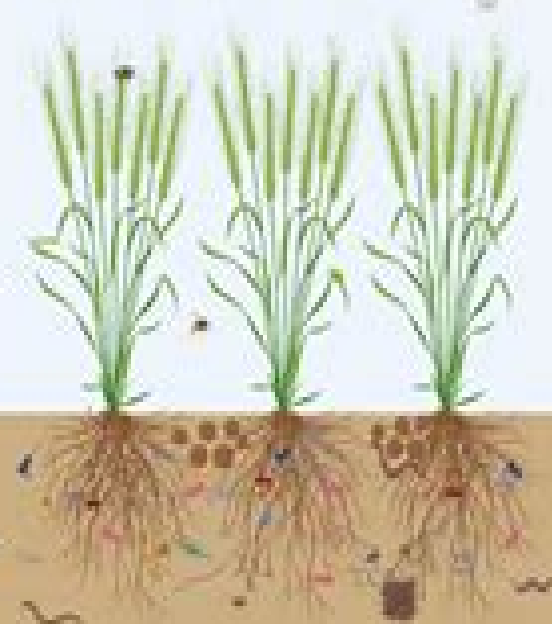
Aboveground legacies

Higher quality of residue;
lower pest density;
higher natural enemy eggs;
smaller seed bank of weeds



Belowground legacies

Better soil structure;
higher soil biodiversity;
more soil organic matter



Belowground aspects

Low greenhouse gas emissions;
fast nutrient cycling;
long-term carbon sequestration

Quantifying Differences In Soil Structure Induced By Farm Management

M. N. M. Van Lieshout



Quantifying Differences In Soil Structure Induced By Farm Management:

Quantifying Differences in Soil Structure Induced by Farm Management Peter Droogers, 1997* Methodology for defining sustainable land management practices is increasingly needed to overcome environmental problems and to maintain production potentials From the large amount of definitions for sustainable management the following was used here Sustainable land management combines technologies policies and activities aimed at integrating socio economic principles with environmental concerns so as to simultaneously i maintain or enhance production and services ii reduce the level of production risk iii protect the potential of natural resources and prevent degradation of soil and water quality iv be economically viable and v socially acceptable Indicators to quantify sustainability are used to analyse the effects of different management types on the soil structure within one soil series in the Netherlands a loamy mixed mesic Typic Fluvaquent It is logical to concentrate on soil structure when evaluating and comparing the effects of different management practices as they reflect management practices at an integrated level Comparison was focused on three soil structure types formed by different management practices i A biodynamic system Bio where no chemical crop protection or commercial fertiliser has been applied since 1924 Animal manure and a crop rotation system with clover are intended to supply the required nutrients ii A conventional system Conv representing a management system that is most common in the region iii A system which has been permanently meadow since 1947 Perm The biodynamic and conventional system were compared by converting static soil parameters like organic matter content bulk density hydraulic characteristics into a dynamic assessment by using a simulation model to calculate water limited productivity A thorough soil characterisation was made including morphological and physical characterisation as well as monitoring of soil water contents and groundwater levels Results of the comparison between simulated and measured moisture contents were such that the model was considered to be adequately validated The simulated water limited productivity for potatoes was significantly higher for the biodynamic system indicating a favourable effect of the higher organic matter content Modern mechanised agricultural practices require soils to be able to be subjected to tillage and traffic without adverse effects on soil structure Threshold values for workability and trafficability were obtained for the three management types Workability by the Atterberg test trafficability by penetrometer measurements and an additional field traffic experiment Threshold values for Conv were most favourable i e during relatively wet conditions Conv could still be tilled and trafficked Periods of workability and trafficability were obtained by combining measured threshold values with simulated moisture contents Conv had the longest workable and trafficable period in a year followed by Perm and Bio respectively Soil survey could focus in future on defining sustainable forms of land use considering that soils within one soil series are not similar Farm management information combined with quantifying the associated soil structure types by simulation models can form the basis for defining sustainable management systems for the soil series being studied As many soil surveys are completed all over the world the proposed procedure appears to be a worthwhile continuation of the rich

tradition of soil survey research **Quantifying Differences in Soil Structure Induced by Farm Management P. Droogers, 1997**

Methodology for defining sustainable land management practices is increasingly needed to overcome environmental problems and to maintain production potentials. From the large amount of definitions for sustainable management the following was used here: Sustainable land management combines technologies, policies and activities aimed at integrating socio-economic principles with environmental concerns so as to simultaneously i) maintain or enhance production and services ii) reduce the level of production risk iii) protect the potential of natural resources and prevent degradation of soil and water quality iv) be economically viable and v) socially acceptable. Indicators to quantify sustainability are used to analyse the effects of different management types on the soil structure within one soil series in the Netherlands: a loamy mixed mesic Typic Fluvaquent. It is logical to concentrate on soil structure when evaluating and comparing the effects of different management practices as they reflect management practices at an integrated level. Comparison was focused on three soil structure types formed by different management practices: i) A biodynamic system Bio where no chemical crop protection or commercial fertiliser has been applied since 1924. Animal manure and a crop rotation system with clover are intended to supply the required nutrients. ii) A conventional system Conv representing a management system that is most common in the region. iii) A system which has been permanently meadow since 1947 Perm. The biodynamic and conventional system were compared by converting static soil parameters like organic matter content, bulk density, hydraulic characteristics into a dynamic assessment by using a simulation model to calculate water-limited productivity. A thorough soil characterisation was made including morphological and physical characterisation as well as monitoring of soil water contents and groundwater levels. Results of the comparison between simulated and measured moisture contents were such that the model was considered to be adequately validated. The simulated water-limited productivity for potatoes was significantly higher for the biodynamic system, indicating a favourable effect of the higher organic matter content. Modern mechanised agricultural practices require soils to be able to be subjected to tillage and traffic without adverse effects on soil structure. Threshold values for workability and trafficability were obtained for the three management types. Workability by the Atterberg test, trafficability by penetrometer measurements and an additional field traffic experiment. Threshold values for Conv were most favourable, i.e. during relatively wet conditions Conv could still be tilled and trafficked. Periods of workability and trafficability were obtained by combining measured threshold values with simulated moisture contents. Conv had the longest workable and trafficable period in a year, followed by Perm and Bio respectively. Soil survey could focus in future on defining sustainable forms of land use, considering that soils within one soil series are not similar. Farm management information combined with quantifying the associated soil structure types by simulation models can form the basis for defining sustainable management systems for the soil series being studied. As many soil surveys are completed all over the world, the proposed procedure appears to be a worthwhile continuation of the rich tradition of soil survey research.

Markov Point Processes and Their Applications M. N. M. Van Lieshout, 2000 This text employs a stochastic approach to studying Markov object processes showing that they form a flexible class of models for a range of problems involving the interpretation of spatial data Applications can be found in many fields of study

Pesticide/Soil Interactions Juan Cornejo, Paul Jamet, 2000 This joint authored book brings together approximately 50 current research methods developed and implemented in research laboratories in Europe to study pesticide soil interactions Its usefulness for researchers teachers and professionals concerned by the environmental impact of pesticides was one of the major elements taken into consideration when structuring this book It will be a valuable asset to chemists physical chemists biochemists biologists and geologists interested in studying the behaviour of pesticides in soils Soils and Fertilizers, 1998

Methods for Measuring Greenhouse Gas Balances and Evaluating Mitigation Options in Smallholder Agriculture Todd S. Rosenstock, Mariana C. Rufino, Klaus Butterbach-Bahl, Lini Wollenberg, Meryl Richards, 2016-08-23 This book provides standards and guidelines for quantifying greenhouse gas emissions and removals in smallholder agricultural systems and comparing options for climate change mitigation based on emission reductions and livelihood trade offs Globally agriculture is directly responsible for about 11% of annual greenhouse gas GHG emissions and induces an additional 17% through land use change mostly in developing countries Farms in the developing countries of sub Saharan Africa and Asia are predominately managed by smallholders with 80% of land holdings smaller than ten hectares However little to no information exists on greenhouse gas emissions and mitigation potentials in smallholder agriculture Greenhouse gas measurements in agriculture are expensive time consuming and error prone challenges only exacerbated by the heterogeneity of smallholder systems and landscapes Concerns over methodological rigor measurement costs and the diversity of approaches coupled with the demand for robust information suggest it is germane for the scientific community to establish standards of measurements for quantifying GHG emissions from smallholder agriculture Standard guidelines for use by scientists development organizations will help generate reliable data on emissions baselines and allow rigorous comparisons of mitigation options The guidelines described in this book developed by the CGIAR Research Program on Climate Change Agriculture and Food Security CCAFS and partners are intended to inform anyone conducting field measurements of agricultural greenhouse gas sources and sinks especially to develop IPCC Tier 2 emission factors or to compare mitigation options in smallholder systems

Interacting Processes in Soil Science R.J. Wagenet, Philippe Baveye, B.A. Stewart, 2020-10-25 Interacting Processes in Soil Science focuses on coupled processes in soil Topics covered in this important volume include the effects of inorganic salts upon water flow modeling of sorption transport and transformation of organic solutes and the effects of microorganisms on silicate clay minerals The book presents studies and approaches that can be extended and complemented by innovative work in the future Interacting Processes in Soil Science will be an essential reference for all researchers and students in soil science soil and water engineering civil and

environmental engineering earth sciences and hydrology *Eurosoil 2021: Sustainable management of soil functions as a basis to avoid, halt, and reverse land degradation* Jörg Luster, Thomas Keller, Miriam Muñoz-Rojas, Lucy Crockford, Ute Wollschläger, 2023-03-13

Advances in measuring soil health Professor Wilfred Otten, 2021-06-22 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 Achieving sustainable crop nutrition Prof Zed Rengel, 2020-02-18 Focus on integrating research on nutrient cycling crop nutrient processing and the environmental impact of fertiliser use to identify ways of improving nutrient use efficiency NUE in the use of particular fertilisers Includes research on a range of secondary macronutrients and micronutrients including calcium magnesium zinc boron manganese and molybdenum Reviews a wide range of options for reducing optimising current levels of fertiliser use

Precision Agriculture for Grain Production Systems Brett Whelan, James Taylor, 2013-04-10 Precision Agriculture PA is an approach to managing the variability in production agriculture in a more economic and environmentally efficient manner It has been pioneered as a management tool in the grains industry and while its development and uptake continues to grow amongst grain farmers worldwide a broad range of other cropping industries have embraced the concept This book explains general PA theory identifies and describes essential tools and techniques and includes practical examples from the grains industry Readers will gain an understanding of the magnitude spatial scale and seasonality of measurable variability in soil attributes plant growth and environmental conditions They will be introduced to the role of sensing systems in measuring crop soil and environment variability and discover how this variability may have a significant impact on crop production systems Precision Agriculture for Grain Production Systems will empower crop and soil science students agronomy and agricultural engineering students as well as agronomic advisors and farmers to critically analyse the impact of observed variation in resources on crop production and management decisions

Assessment and Modeling of Soil Functions or Soil-Based Ecosystem Services: Theory and Applications to Practical Problems Philippe C. Baveye, Estelle Dominati, Hans-Joerg Vogel, Adrienne Grêt-Regamey, 2022-01-12

Maize productivity gains through research and technology dissemination J. K. Ransom, 1997

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Soil Compaction in Crop Production B.D. Soane, C. van Ouwerkerk, 2013-10-22 This book provides a global review of the mechanisms incidence and control measures related to the problems of soil compaction in agriculture forestry and other cropping systems Among the disciplines which relate to this subject are soil physics soil mechanics vehicle mechanics agricultural engineering plant physiology agronomy pedology climatology and economics The volume will be of great value to soil scientists agricultural engineers and all those involved with irrigation drainage and tillage It will help to facilitate the

exchange of information on current work throughout the world as well as to promote scientific understanding and stimulate the development evaluation and adoption of practical solutions to these widespread and urgent problems The Climate-Smart Agriculture Papers Todd S. Rosenstock, Andreea Nowak, Evan Girvetz, 2018-11-28 This book is open access under a CC BY 4.0 license This volume shares new data relating to Climate Smart Agriculture CSA with emphasis on experiences in Eastern and Southern Africa The book is a collection of research by authors from over 30 institutions spanning the public and private sectors with specific knowledge on agricultural development in the region discussed The material is assembled to answer key questions on the following five topic areas 1 Climate impacts What are the most significant current and near future climate risks undermining smallholder livelihoods 2 Varieties How can climate smart varieties be delivered quickly and cost effectively to smallholders 3 Farm management What are key lessons on the contributions from soil and water management to climate risk reduction and how should interventions be prioritized 4 Value chains How can climate risks to supply and value chains be reduced and 5 Scaling up How can most promising climate risks reduction strategies be quickly scaled up and what are critical success factors Readers who will be interested in this book include students policy makers and researchers studying climate change impacts on agriculture and agricultural sustainability **Encyclopedia of Soil Science** Rattan Lal, 2017-01-11 New and Improved Global Edition Three Volume Set A ready reference addressing a multitude of soil and soil management concerns the highly anticipated and widely expanded third edition of Encyclopedia of Soil Science now spans three volumes and covers ground on a global scale A definitive guide designed for both coursework and self study this latest version describes every branch of soil science and delves into trans disciplinary issues that focus on inter connectivity or the nexus approach For Soil Scientists Crop Scientists Plant Scientists and More A host of contributors from around the world weigh in on underlying themes relevant to natural and agricultural ecosystems Factoring in a rapidly changing climate and a vastly growing population they sound off on topics that include soil degradation climate change soil carbon sequestration food and nutritional security hidden hunger water quality non point source pollution micronutrients and elemental transformations New in the Third Edition Contains over 600 entries Offers global geographical and thematic coverage Entries peer reviewed by subject experts Addresses current issues of global significance Encyclopedia of Soil Science Third Edition Three Volume Set expertly explains the science of soil and describes the material in terms that are easily accessible to researchers students academicians policy makers and laymen alike Also Available Online This Taylor E mail e reference taylorandfrancis.com International Tel 44 0 20 7017 6062 E mail online sales tandf.co.uk **Instant Insights: Phosphorus uptake and use in crops** Dr Jiayin Pang, Dr Zhihui Wen, Dr Daniel Kidd, Dr Megan H. Ryan, Dr Rui-Peng Yu, Professor Li Long, Dr Wen-Feng Cong, Professor Kadambot Siddique, Emeritus Prof Hans Lambers, Professor John Havlin, Dr A. J. Schlegel, Dr Richard J. Simpson, Dr Rebecca E. Haling, Dr Phillip Graham, Prof Andrew N. Sharpley, 2023-03-21 This collection features four peer reviewed reviews on phosphorus uptake and use in crops The first chapter summarises the

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