

# Resource Allocation Theory Applied To Farm Animal Production Cabi

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[The Role of the Farm Management Specialist in Extension](#) Jan 19 2022 The materials covered in this collection have been prepared for use by all service providers concerned with promoting farming as a business - whether they work for the private, NGO, or public sector. This could include the public sector extension workers who are involved in farm business management and marketing, private sector business service providers, NGOs and policymakers. Further, it is hoped that the material will encourage decision-makers in countries where farm management extension positions have not been established to set up such positions.

[Big Data in Context](#) May 31 2020 This book is open access under a CC BY 4.0 license. This book sheds new light on a selection of big data scenarios from an interdisciplinary perspective. It features legal, sociological and economic approaches to fundamental big data topics such as privacy, data quality and the ECJ's Safe Harbor decision on the one hand, and practical applications such as smart cars, wearables and web tracking on the other. Addressing the interests of researchers and practitioners alike, it provides a comprehensive overview of and introduction to the emerging challenges regarding big data. All contributions are based on papers submitted in connection with ABIDA (Assessing Big Data), an interdisciplinary research project exploring the societal aspects of big data and funded by the German Federal Ministry of Education and Research. This volume was produced as a part of the ABIDA project (Assessing Big Data, 01IS15016A-F). ABIDA is a four-year collaborative project funded by the Federal Ministry of Education and Research. However the views and opinions expressed in this book reflect only the authors' point of view and not necessarily those of all members of the ABIDA project or the Federal Ministry of Education and Research.

**The Organic Farming Manual** Feb 08 2021 Providing expert tips on tending the land, caring for animals, and necessary equipment, Ann Larkin Hansen also covers the intricate process of acquiring organic certification and other business considerations important to a profitable operation. Discover the rewarding satisfaction of running a successful and sustainable organic farm.

**Farm Management** May 23 2022 Designed to teach the farm managers of tomorrow, Farm Management emphasizes the strategic and operations aspects of managing a farm. Today's farm managers will want to consult it as well to improve the effectiveness, objectivity, and success of their decisions. This innovative textbook is framed by the increasing need for farmers to develop and follow a business plan. Topics not found in traditional farm management texts include: Strategic management; How to evaluate, choose, and implement the business strategies that best fit the farm and the farmer; Production and operations planning; How to benefit from techniques and management tools used in general business; Quality management and control that will decrease costs and meet consumer demands; Production contract evaluation; Decision making beyond the traditional microeconomic analysis: decision making under risk and the development of scenarios to understand the impact of an uncertain future. Fundamental farm management topics and basics are not ignored in this all-inclusive text. Traditional material includes budgeting, marketing, enterprise selection, production planning, financial analysis, financial management, investment analysis, risk management, work force management, business organization, and control management. Student learning will be enhanced by review questions and a glossary in the book. Other ancillary material: study notes, virtual field trips, a test bank, class assignments, instructions on how to produce local examples to complement the examples in the text, and worksheets for students are available on the author's website or on a CD-ROM.

**The Lean Farm** Sep 15 2021 A practical, systems-based approach for a more sustainable farming operation To many people today, using the words "factory" and "farm" in the same sentence is nothing short of sacrilege. In many cases, though, the same sound business practices apply whether you are producing cars or carrots. Author Ben Hartman and other young farmers are increasingly finding that incorporating the best new ideas from business into their farming can drastically cut their wastes and increase their profits, making their farms more environmentally and economically sustainable. By explaining the lean system for identifying and eliminating waste and introducing efficiency in every aspect of the farm operation, The Lean Farm makes the case that small-scale farming can be an attractive career option for young people who are interested in growing food for their community. Working smarter, not harder, also prevents the kind of burnout that start-up farmers often encounter in the face of long, hard, backbreaking labor. Lean principles grew out of the Japanese automotive industry, but they are now being followed on progressive farms around the world. Using examples from his own family's one-acre community-supported farm in Indiana, Hartman clearly instructs other small farmers in how to incorporate lean practices in each step of their production chain, from starting a farm and harvesting crops to training employees and selling goods. While the intended audience for this book is small-scale farmers who are part of the growing local food movement, Hartman's prescriptions for high-value, low-cost production apply to farms and businesses of almost any size or scale that hope to harness the power of lean in their production processes.

**Managing Risk in Farming** Sep 03 2020 This guide is intended to help extension workers better understand the concept of risk, the situation where risk occurs and management strategies that can be used to reduce, or at least soften, its effect. It is hoped that the guide will be useful in assisting extension workers to provide farmers with advice on the kind of risk management strategies that they can employ to deal with risk in their day-to-day operations. In this way extension workers can help farmers recognize and understand the risks that they are likely to face and assist them in making better farm management decisions that reduce the negative effect of the risks encountered in farming.

**Cost Accounting Applied to Agriculture** Aug 02 2020

**Management and Welfare of Farm Animals** Jul 01 2020 "The broad aim of this book, as in earlier editions, is to provide an introduction to the management and welfare of farm animals through the practice of good husbandry within the context of an efficient, sustainable agriculture. Successive chapters outline these principles and practices for the major farmed species within a range of production systems, both intensive and extensive. This chapter opens with a description of concepts in animal welfare that may be applied to any sentient farm animal, then progresses to general principles that may be applied to their management. These general principles are illustrated by specific examples relating to animal species and production systems (e.g. broiler chickens, dairy cows). For those of you who are new to the study of animal management and animal welfare, some of these examples may only make sense when you have read the chapter on the species to which they refer. I also suggest that, when you have read, learned and inwardly digested a chapter on a particular species, you might refer back to this opening chapter and consider how well (or not) current management practices for that species meet the general criteria for good husbandry and welfare within the categories outlined here. The purpose of farming is to use the resources of the land to provide the people

with food and other goods. For most of the history of agriculture and, even now, throughout most of the world, the role of the farmer has been straightforward: to produce food to meet the needs of the people. If they could produce it, we would buy it. Today, in developed, affluent, urbanized society, consumers have much greater freedom in their choice of food and their decisions will range beyond the direct elements of price and nutritive value to include issues such as provenance, animal welfare and environmental cost. An increasing number, ovo-lacto-vegetarians, reject meat. Vegans will not eat or wear anything of animal origin. To succeed, modern farmers must combine a knowledge and understanding of how to care for the life of their land with a shrewd awareness of the needs and wants of their consumers to obtain the best possible value from what they have to sell. Successful livestock farmers are those who also have the best understanding of the needs and wants of their animals"--

**The Organic No-Till Farming Revolution** Dec 26 2019 Learn how to use natural no-till systems to increase profitability, efficiency, carbon sequestration, and soil health on your small farm. Farming without tilling has long been a goal of agriculture, yet tilling remains one of the most dominant paradigms; almost everyone does it. But tilling kills beneficial soil life, burns up organic matter, and releases carbon dioxide. If the ground could instead be prepared for planting without tilling, time and energy could be saved, soil organic matter increased, carbon sequestered, and dependence on machinery reduced. The Organic No-Till Farming Revolution is the comprehensive farmer-developed roadmap showing how no-till lowers barriers to starting a small farm, reduces greenhouse gas emissions, increases efficiency and profitability, and promotes soil health. This hands-on manual offers: Why roller-crimper no-till methods don't work for most small farms A decision-making framework for the four no-till methods: occlusion, solarization, organic mulches grown in place, and applied to beds Ideas for starting a no-till farm or transitioning a working farm A list of tools, supplies, and sources. This is the only manual of its kind, specifically written for natural and small-scale farmers who wish to expand or explore chemical-free, regenerative farming methods.

**Fundamental and Applied Scientific Research in the Development of Agriculture in the Far East (AFE-2021)** May 11 2021 This book contains new ideas on farming processes, describes new analytical methods that are applicable to a broad range of agricultural systems, and presents new technologies and solutions, which help agricultural systems to function in the modern conditions of digitalization and a changing climate. The results of scientific research presented within the framework of the conference Fundamental and Applied Scientific Research in the Development of Agriculture in the Far East (AFE-2021), which took place in Ussuriysk, Russia are covering the following topics: precision livestock farming, farm management platforms, yield monitoring and estimation, IoTs in farming, water management, smart agriculture machines. These new ideas outlined in the book are future-oriented and are expected to stimulate community debate on determining future directions for advancing agricultural research worldwide. The book is focused on the study of interactions between the components of agricultural systems, between their hierarchical levels, between different types of land use systems, and between agricultural systems and the economic environment. The methods and tools for agricultural systems design, estimation and monitoring are proposed in this book. Studies presented here allow improving the environmental and economic performance of agricultural systems. This book is of particular importance for professionals, scholars, and researchers in the field of agriculture and livestock farming, as well as for the heads and top managers of agricultural enterprises, since materials described in the book will help them in making right decisions.

**The Economics of Farm Management** Dec 06 2020 Future farm managers need a range of tools and knowledge to run successful businesses, and this accessible textbook provides the required foundations from economics and management, applied to the farm context. In today's world where farms are subject to ever-changing industrial, labor, demographic and technological factors, this textbook provides a clear focus and methodology for business stability and growth. It covers core microeconomic and macroeconomic principles, plus the full range of management topics, from accounting and marketing to operations management and human resource management. It also covers family succession planning and farming mega-trends. This second edition has been updated with the latest data and literature, and gives deeper attention to sustainability and conservation. It also offers a broader range of examples, showcasing the diversity of farm types and farm sizes across the US and globally. Instructor materials are available as digital supplements. This textbook will be a valuable resource for courses in farm management, ranch management, agribusiness and agricultural economics.

**Economics for Farm Management Extension** Apr 29 2020 This guide has been prepared for agricultural extension workers to introduce them to some of the principles of economics that are relevant to smallholder farming and in particular market-oriented farming. The reader will gain a basic understanding of some of the terms and concepts used in economics and relate them to the day-to-day decisions that farmers make. The aim of this guide is to build skills that will enable extension workers to assist farmers make the kinds of farm management decisions that lead to greater farm profitability.

**Earth Observation Open Science and Innovation** Feb 26 2020 This book is published open access under a CC BY 4.0 license. Over the past decades, rapid developments in

digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work. The digital transformation is revolutionizing our ability to monitor our planet and transforming the way we access, process and exploit Earth Observation data from satellites. This book reviews these megatrends and their implications for the Earth Observation community as well as the wider data economy. It provides insight into new paradigms of Open Science and Innovation applied to space data, which are characterized by openness, access to large volume of complex data, wide availability of new community tools, new techniques for big data analytics such as Artificial Intelligence, unprecedented level of computing power, and new types of collaboration among researchers, innovators, entrepreneurs and citizen scientists. In addition, this book aims to provide readers with some reflections on the future of Earth Observation, highlighting through a series of use cases not just the new opportunities created by the New Space revolution, but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites.

**Farm Implements and Farm Machinery, and the Principles of Their Construction and Use** Jan 27 2020

*Farming Systems and Poverty* Aug 26 2022 A joint FAO and World Bank study which shows how the farming systems approach can be used to identify priorities for the reduction of hunger and poverty in the main farming systems of the six major developing regions of the world.

**Precision livestock farming applications** Aug 22 2019 Precision Livestock Farming (PLF) technology is a reality. PLF is a combination of developing animal sensing (sensors) tools and decision-making process at the farm level. It also has the potential to support animal feed suppliers, human-food retailers and other players along the supply chain to make better choices. The current challenge for PLF is the integration of the technology in the majority of the farms and not only to the pioneering farms. This book consist of full-length peer-reviewed papers combined with 'questions and answers' sections. It is the result of a joint session hosted by the European Association of Animal Production and brings together research focusing on real-time interpretation of the combination of sensor development, industry, animal genetics, animal nutrition, and animal health. Unique of this 'cross-disciplinary' approach is that 'animal-focused' scientists, engineers, companies as well as farmers' organizations have interacted and combined their strengths and views. 'Precision Livestock Farming Applications - Making sense of sensors to support farm management' provides an update on the state of the art of PLF in interaction with the other scientific and applicative expertise. It is of interest for researchers, students, professionals, farmers, and livestock industry concerned with livestock production management.

**Inputs Used in U.S. Farm Production** Oct 24 2019

*The Agricultural Notebook* Mar 09 2021 The Twentieth Edition takes The Agricultural Notebook into its third century; it has been thoroughly revised and updated to reflect the considerable changes in agricultural and rural practices and policies which have taken place since publication of the previous edition. The book is divided into four parts: Crops, Management, Animal Production, and Farm Equipment. New sections added to this edition include: 1) A Marketing Perspective on Diversification, 2) Organic Farming, and 3) Farming and Wildlife. Since the first edition was compiled by Primrose McConnell in 1883, The Agricultural Notebook has become established as the standard work of reference for all those in the farming industry. With each edition it has evolved and changed in such a way as to provide agricultural scientists, students of agriculture and related subjects, farmers, farm managers and land agents with an abundance of current information on all aspects of the business of farming. Many comments received from lecturers and students who have used previous editions of the book have been taken into account in producing the twentieth edition. The thirty contributing authors have fully updated chapters, a new clearer layout has been adopted and much new information is included in easy-to-use tables and figures. The Agricultural Notebook is an essential purchase for all students of agriculture, countryside, and rural studies. Professionals such as farmers, land agents, agricultural scientists, advisers, suppliers to the agriculture industry and all those with a connection and interest in the agricultural community will find a huge wealth of information within the book's covers. All libraries within universities, colleges and research establishments where agricultural and rural sciences are studied and taught should have multiple copies of this important new edition on their shelves.

**Guidance on sustainable cricket farming – A practical manual for farmers and inspectors** Aug 14 2021 This manual systematically describes basic management techniques needed to ensure best practices in raising crickets for food production. These techniques are based on 20 years of practical experience in cricket farming in Thailand, and previously unpublished data and knowledge collected by the author and support team. Robust research data related to cricket farming is still lacking, but will undoubtedly increase over time. However, in the interim, the growing cricket farming sector can be enhanced through the application of known best practices and related guidance.

**Livestock housing** Nov 24 2019 Appropriate housing that promotes excellent health and high welfare for different livestock species is an essential aspect of sustainable

animal production. The appropriate design of livestock buildings is a fast changing and ever improving professional endeavour. This book is set out to review the `current best practice management, in relation to all key design elements of livestock buildings. It is important to manage these buildings correctly to generate environmental conditions that will enhance the health and welfare of livestock, the health of farm workers and people living near farming operations. 'Livestock housing' is written for all those who are involved in managing the health and welfare conditions of housed livestock on commercial farms, including farm workers, animal scientists, veterinarians, agricultural engineers and of course students. Contributions have been solicited from highly respected specialists from around the world. All key areas of housing management are reviewed, including feeding, watering, ventilation and waste management systems. Furthermore, issues such as the control of emissions, role of bedding, maintenance of hygiene, the management of thermal and aerial environment as well as the use of modern technological tools in the service of livestock management are discussed. This book provides a unique forum for leading international experts to convey up-to-date information to professionals involved in modern animal production.

#### **Practical Architecture as Applied to Farm Buildings** Dec 18 2021

*Automation in Agriculture* Jun 12 2021 According to Prof. D. Despommier, by the year 2050, nearly 80% of the earth's population will reside in urban centers. Furthermore, the human population will increase by about 3 billion people during the interim. New land will be needed to grow enough food to feed them. At present, throughout the world, over 80% of the land that is suitable for raising crops is in use. What can be done to avoid this impending disaster? One possible solution is indoor farming. However, not all crops can easily be moved in an indoor environment. Nevertheless, to secure the food supply, it is necessary to increase the automation level in agriculture significantly. This book intends to provide the reader with a comprehensive overview of the impact of the Fourth Industrial Revolution and automation examples in agriculture.

#### Multiple Correlation Analysis as Applied to Farm-management Research Oct 28 2022

**Rural and Farming Systems Analysis** Nov 05 2020 The Farming Systems Research and Extension approach adopts a multidimensional perspective and has been widely used to bring about rural change in many developing countries. The approach has traditionally been less used in Europe where research has tended to concentrate on increasing production. However, with the current emphasis within the European Union on restricting surpluses and on environmental and social protection, circumstances are more appropriate to the farming systems approach. Changes to rural infrastructures and agricultural production in Central and Eastern Europe may also favor the approach. This book is the first to define the issues of farming systems research as they might be applied within a European context and extended to rural systems as a whole. Consisting of 27 chapters, it is divided into five parts covering: conceptual background; contextual setting; alternative production systems; understanding farm households; and systems methodologies. Contributions are included from the UK, Ireland, France, Germany, Spain, Portugal, Denmark, Netherlands, Finland, Estonia and Greece. The book is aimed at a wide range of readers in agricultural economics and rural studies.

**Rural Wealth and Welfare: Economic Principles Illustrated and Applied in Farm Life** Oct 16 2021 DigiCat Publishing presents to you this special edition of "Rural Wealth and Welfare: Economic Principles Illustrated and Applied in Farm Life" by Geo. T. Fairchild. DigiCat Publishing considers every written word to be a legacy of humankind. Every DigiCat book has been carefully reproduced for republishing in a new modern format. The books are available in print, as well as ebooks. DigiCat hopes you will treat this work with the acknowledgment and passion it deserves as a classic of world literature.

Farm Planning with Linear Programming: Concept and Practice Mar 21 2022 *Farm Planning with Linear Programming: Concept and Practice* focuses on concepts and methods in farm planning. The book first discusses the principles of farm planning, including elements of farm planning problems, summary, and review questions. The text highlights farm planning models. The nature of models; commonly used farm planning models; multiple constraint problems and program planning; problems in applying models; and comments are considered. The book also focuses on the linear programming network; opportunity cost and the simplex method; and analysis of the linear programming solution. The text also explains tableaux construction for short-run planning. Crop and pasture rotations; feed budgeting; buy, sell, and hire activities; and livestock reconciliation are discussed. The book also describes pastoral property applications. Breed comparison; economics of off-farm grazing and spatial diversification; and optimal calving date and lactation length on dairy farms are discussed. The text is a good source of information for agricultural researchers, farmers, and students wanting to study farm management.

**Labor and Power Used for Farm Enterprises** Mar 29 2020 Excerpt from *Labor and Power Used for Farm Enterprises: Indiana, 1950* The Bureau of Agricultural Economics makes annual estimates of the total man-hours of labor used in farming in the nine geographic divisions and in the United States. 1/ Comparable data have also been developed for each State for 2 years. G/ These estimates are made by applying average man-hours per acre or per head to the official estimates of acres of crops and numbers of livestock.

Man-hours per acre or per head vary from year to year, depending on yields, degree of mechanization, and other factors. The labor rates per acre and per head are not the result of special surveys; they are estimates based on secondary sources such as farm-management reports, studies of costs of production, and analyses of changes in farm practices and mechanization. These sources provided considerable data for some enterprises and areas and a great deal less for others. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

**Agriculture** Oct 04 2020 From the large corporation using enormous machines in the USA, to the woman with her hoe and her plot of cassava in Mozambique, to a Chinese collective farm worker in the rice fields, agriculture is essential for humanity to eat. This book looks at the many different types of agriculture and considers the challenges facing farmers today.

*Practical architecture, as applied to farm buildings* Apr 22 2022

*Principles of Farm Management* Nov 17 2021 The field of farm management; The need for and basis of farm-management information; The place of economic theory in farm management; The collection and analysis of farm-management data; Cost and returns in farming; Simple farm records; Farm accounting systems; Physical factors affecting types of farming; Economic factors affecting types of farming; The relation of the general price level to returns from farming; The size of the farm business; Production efficiency; Labor efficiency; Selection of enterprises; Marketing practices; Other factors affecting farm returns; Establishing the farm business; Organizing and operating the farm the farm business; Managing farm finances; Farm business arrangements.

**The Book of the Farm** Sep 22 2019

*Making Your Small Farm Profitable* Nov 29 2022 Turn your farm into a cash cow! Ron Macher offers a host of simple strategies for increasing your farm earnings, from purchasing durable equipment to growing economically viable crops. A seasoned expert in farm efficiency, Macher shows you how to locate a lucrative niche market for your products, optimize sales, and minimize costs. Whether you're buying a new farm or jump-starting an old one, Macher's savvy tips will help you turn your enterprise into a profitable business.

*The Biodynamic Farm* Jul 13 2021 This is an essential reference for all farmers who are unsatisfied with conventional methods and for gardeners who wish to improve the quality of life around them as well as the food they serve their families.

*Systems Theory Applied to Agriculture and the Food Chain* Apr 10 2021 Biological and physiological systems: animal sciences. Plant-animal interactions in northern temperate sown grasslands and semi-natural vegetation. Exploitation of the systems approach in technical design of agricultural enterprises. Application of systems theory to farm planning and control: modelling resource allocation. Optimising the mixture of enterprises in a farming system. Farming systems research-extension. Food policy and food security planning: institutional approaches to modelling grain markets and food security in Sub-Saharan Africa. A systems view of commercial supply and marketing links. Agroecosystems. Understanding and managing changes in agriculture. Agricultural sector modelling for policy development. Of agricultural systems and systems agriculture: systems methodologies in agricultural education. Extension education: Top(s) Down, Bottom(s) Up and Other Things.

*Improving Data Collection and Measurement of Complex Farms* Sep 27 2022 America's farms and farmers are integral to the U.S. economy and, more broadly, to the nation's social and cultural fabric. A healthy agricultural sector helps ensure a safe and reliable food supply, improves energy security, and contributes to employment and economic development, traditionally in small towns and rural areas where farming serves as a nexus for related sectors from farm machinery manufacturing to food processing. The agricultural sector also plays a role in the nation's overall economic growth by providing crucial raw inputs for the production of a wide range of goods and services, including many that generate substantial export value. If the agricultural sector is to be accurately understood and the policies that affect its functioning are to remain well informed, the statistical system's data collection programs must be periodically revisited to ensure they are keeping up with current realities. This report reviews current information and makes recommendations to the U.S. Department of Agriculture's (USDA's) National Agricultural Statistics Service (NASS) and Economic Research Service (ERS) to help identify effective methods for collecting data and reporting information about American agriculture, given increased complexity and other changes in farm business structure in recent decades.

**Farming for the Future** Jan 07 2021 Part I: low-external-input and sustainable agriculture (leisa): an emerging option; Agriculture and sustainability; Sustainability and farmers: making decisions at the farm level; Technology development by farmers; Part II: Principles and possibilities of leisa; Low-external-input farming and agroecology; Basic ecological principles of leisa; Development of leisa systems; Part III: Linking farmers and scientists in developing leisa technologies; Actors and activities in developing leisa technologies; Participatory technology development in practice: process and methods; Appendices; Appendix A some promising leisa techniques and practices; Appendix B glossary of key terms; Appendix C useful contacts and sources of further information; References; Index.

**Training Manual for Organic Agriculture** Jul 25 2022 The production of this manual is a joint activity between the Climate, Energy and Tenure Division (NRC) and the Technologies and practices for smallholder farmers (TECA) Team from the Research and Extension Division (DDNR) of FAO Headquarters in Rome, Italy. The realization of this manual has been possible thanks to the hard review, compilation and edition work of Nadia Scialabba, Natural Resources officer (NRC) and Ilka Gomez and Lisa Thivant, members of the TECA Team. Special thanks are due to the International Federation of Organic Agriculture Movements (IFOAM), the Research Institute of Organic Agriculture (FiBL) and the International Institute for Rural Reconstruction (IIRR) for their valuable documents and publications on organic farming for smallholder farmers.

**Applied Farm Management** Jun 24 2022 As in the first edition, theory and practice are brought together in economics, finance, farm management and marketing in a way which highlights the interrelationships between them. The applied aspects, together with the coverage of marketing and the worked examples make the text uniquely important.

**Farm Book-keeping** Feb 20 2022

**Resource Allocation Theory Applied to Farm Animal Production** Dec 30 2022 This book is about resource allocation matters with the aim to further development thoughts and models on resource allocation applied to livestock production. It contains 18 chapters divided into 4 parts which discuss resources and resource allocation patterns, trade-offs, metabolic constraints to resource allocation and the process of homeorhesis with a special emphasis to homeorhesis during heat stress; the relationship between food intake and resources allocated to body maintenance, growth, reproduction and the immune response; the consequences of high production efficiency in pigs, poultry and dairy cattle and the consequences of improved production by means of biological engineering and options to include resource allocation matters in the breeding objective, animal welfare and in resource allocation modelling.

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