

Hans van de Vis · Anders Kiessling
Gert Flik · Simon Mackenzie *Editors*

Welfare of Farmed Fish in Present and Future Production Systems

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**Hans van de Vis, Anders Kiessling, Gert
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Welfare Of Farmed Fish In Present And Future Production Systems:

Welfare of Farmed Fish in Present and Future Production Systems Hans van de Vis, Anders Kiessling, Gert Flik, Simon Mackenzie, 2012-09-19 The book entitled *Welfare of farmed fish in present and future production systems* summarises the view of more than 80 experts in the field of fish welfare collected over a period of more than five years in an international network entitled *Welfare of Fish in European Aquaculture Cost action 867* which was sponsored by the COST Office COST is the acronym for European Cooperation in Science and Technology During the time of the action a shift became evident in the general perception of fish welfare It now not only includes variables with very direct effects on growth and thereby the economy of the farmer such as disease water and feed quality but the term also includes fish preferences and biology based stimulation measures This Cost action has contributed to the notion that welfare sets biological criteria for a sustainable production system We present the reader with an overview of the results obtained which can help to guide the way towards welfare of farmed fish in present and future production systems The first chapter gives an overview of the scientific papers that follow All scientific papers and the first chapter were previously published in *Fish Physiology and Biochemistry* vol 38 number 1 2012 Given the accruing interest in fish welfare in society each of these scientific papers should be accessible for stakeholders that are not part of the research community For that reason each of the scientific papers is preceded by a summary for non experts Previously published in *Fish Physiology and Biochemistry* vol 38 number 1 2012

Welfare of fishes in aquaculture Food and Agriculture Organization, 2019-08-06 The welfare of fish in aquaculture is of increasing public concern in Europe and thus of growing importance for fish farmers Although the topic can be regarded as controversial due in particular to the lack of available knowledge there is nevertheless an urgent need for fish farmers authorities and scientists to develop criteria approaches and practices to monitor and safeguard the welfare of cultured fish The objective of this document is to provide the opinion of EIFAAC Member institutions as the reference body in the field of inland fisheries and aquaculture on how given the current state of scientific knowledge fish welfare issues can be integrated into best practice guidelines for fish culture This report deals with the welfare of farmed finfish and neither addresses capture fisheries be they commercial or recreational nor welfare issues related to the culture of crustaceans and molluscs The report focuses on the welfare issues of on growing fish while giving little to no attention to larvae fry and broodstock Likewise the report focuses primarily on the culture conditions for farming of fish and gives little attention to welfare aspects related to transport and slaughter Finally emphasis is given to the culture of freshwater fish but marine species are included where appropriate It is understood that the principal welfare issues are comparable for freshwater and marine fish culture

Welfare of Farmed Fish in Present and Future Production Systems Hans van de Vis, Anders Kiessling, Gert Flik, Simon Mackenzie, 2012-11-13 The book entitled *Welfare of farmed fish in present and future production systems* summarises the view of more than 80 experts in the field of fish welfare collected over a period of more than five years in an international

network entitled Welfare of Fish in European Aquaculture Cost action 867 which was sponsored by the COST Office COST is the acronym for European Cooperation in Science and Technology During the time of the action a shift became evident in the general perception of fish welfare It now not only includes variables with very direct effects on growth and thereby the economy of the farmer such as disease water and feed quality but the term also includes fish preferences and biology based stimulation measures This Cost action has contributed to the notion that welfare sets biological criteria for a sustainable production system We present the reader with an overview of the results obtained which can help to guide the way towards welfare of farmed fish in present and future production systems The first chapter gives an overview of the scientific papers that follow All scientific papers and the first chapter were previously published in Fish Physiology and Biochemistry vol 38 number 1 2012 Given the accruing interest in fish welfare in society each of these scientific papers should be accessible for stakeholders that are not part of the research community For that reason each of the scientific papers is preceded by a summary for non experts Previously published in Fish Physiology and Biochemistry vol 38 number 1 2012

The Welfare of Fish Tore S. Kristiansen, Anders Fernö, Michail A. Pavlidis, Hans van de Vis, 2020-07-01 This book investigates how fish experience their lives their amazing senses and abilities and how human actions impact their quality of life The authors examine the concept of fish welfare and the scientific knowledge behind the inclusion of fish within the moral circle and how this knowledge can change the way we treat fish in the future In many countries fish are already protected by animal welfare legislation in the same way as mammals but in practice there is still a major gap between how we ethically view these groups and how we actually treat them The poor treatment of fish represents a massive animal welfare problem in aquaculture and fisheries both in terms of the number of animals affected and the severity of the welfare issues Thanks to its interdisciplinary scope this thought provoking book appeals to professionals academics and students in the fields of animal welfare cognition and physiology as well as fisheries and aquaculture management

Aquaculture, 2020-12-01 Fish Physiology Volume 38 in this ongoing series examines how the inherent potential of fish to express traits of economic value can be realized through aquaculture Topics covered include the regulation of the reproductive cycle of captive fish shifting carnivorous fish towards plant based diets defining the challenges opportunities and optimal conditions for growth under intensive culture including in Recirculating Aquaculture Systems enhancing immune function and fish health during culture identifying and managing maladaptive physiological responses to aquaculture stressors establishing welfare guidelines for farmed fish phenotypic and physiological responses to genetic modification Zebrafish as a research tool and the aquaculture of air breathing fish Contains contributions from an international board of authors each with decades of aquaculture expertise Provides the most up to date information on the fundamental role that physiology plays in optimizing fish performance in aquaculture Provides the latest release in the Fish Physiology series that tackles how the manipulation of biological processes can be used to maximize the expression of beneficial production traits in fish aquaculture

Preslaughter handling and slaughter of

meat animals Luigi Faucitano,2023-08-14 Preslaughter handling and slaughter of meat animals is unique because it covers the entire period of preslaughter period and slaughter and its effects on the welfare of multiple species destined for meat production Several chapters describe the current knowledge on all welfare topics from pre transport preparation at the farm to stunning and slaughter and the assessment of animal welfare and stress through physiological behavioural and meat and carcass quality measures Other chapters cover new and important topics such as mobile slaughter and preslaughter handling and slaughter of non traditional meat species This unique and comprehensive work is written by internationally renowned experts and accomplished scientists in the field who are engaged in active research laboratories and who have demonstrated their devotion to animal care and welfare This work will be of interest and relevance to animal scientists academics students animal welfare and industry associations policy makers veterinarians livestock and poultry chain stakeholders and all those involved in and who care about the humane handling of meat species Current state of fish behaviour & welfare research:

Honoring Victoria Braithwaite Susan Healy,Felicity Ann Huntingford,Becca Franks,2023-04-17 **Aquaculture** John S. Lucas,Paul C. Southgate,Craig S. Tucker,2019-01-22 A clear illustration of the important role of aquaculture in supporting food security livelihoods and economic development around the world This new edition of Aquaculture Farming Aquatic Animals and Plants covers important aspects of the culture of fish shellfish and algae in freshwater and marine environments Subject areas covered include principles of aquaculture water quality environmental impacts of aquaculture desert aquaculture reproduction life cycles and growth genetics and stock improvement nutrition and feed production diseases vaccination post harvest technology economics and marketing and future developments of aquaculture Separate chapters also cover the culture of algae carps salmonids tilapias catfish marine and brackish fishes soft shelled turtles barramundi marine shrimp mitten crabs and other decapod crustaceans bivalves gastropods and ornamental species This edition also provides greater coverage of aquaculture in China reflecting the country s importance in the global scene Providing core scientific and commercially useful information and written by 35 eminent international authors this expanded and fully updated Third Edition of Aquaculture is essential reading for all students and professionals studying and working in aquaculture Fish farmers hatchery managers and those in aquaculture support and supply industries such as feed manufacturing will find an abundance of commercially useful information within this important and now established book Describes the multitude of developments that have occurred within the aquaculture field over the last 15 years Includes a major revision of production statistics and trends discussion of technical developments and revised and extended coverage provided by broader international authorship Brings together 35 internationally recognized contributors including a number of new contributors Aquaculture Farming Aquatic Animals and Plants Third Edition is a recommended text for students of the subject and a concise reference for those working in or entering into the industry **The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals** Huw Golledge,Claire Richardson,2024-05-07 The latest

edition of the seminal reference on the care and management of laboratory and research animals The newly revised ninth edition of The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals delivers an up to date and authoritative exploration on worldwide developments current thinking and best practices in the field of laboratory animal welfare science and technology The gold standard in laboratory and captive animal care and management references this latest edition continues the series tradition of excellence by including brand new chapters on ethical review the care of aged animals and fresh guidance on the care of mole rats corvids zebrafish and decapods The book offers introductory chapters covering a variety of areas of laboratory animal use as well as chapters on the management and care of over 30 different taxa of animals commonly utilised in scientific procedures and research around the world It also provides A thorough introduction to the design of animal experiments laboratory animal genetics and the phenotyping of genetically modified mice Comprehensive explorations of animal welfare assessment and the ethical review process Practical discussions of legislation and oversight of the conduct of research using animals from a global perspective In depth examinations of the planning design and construction of efficient animal facilities special housing arrangements and nutrition feeding and animal welfare The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals Ninth Edition is essential for laboratory animal scientists veterinarians animal care staff animal care regulatory authorities legislators and professionals working in animal welfare non governmental organizations Management and Welfare of Farm Animals John Webster, Jean Margerison, 2022-05-27 Management and Welfare of Farm Animals provides comprehensive and up to date information on the humane management of all major farmed species in both large scale food production and alternative farming systems Designed for agricultural and veterinary science students this classic textbook covers the management and welfare of species including dairy and beef cattle veal calves sheep pigs chickens turkeys goats horses and farmed fish The sixth edition incorporates recent developments throughout including an entirely new chapter on international developments in animal welfare law politics and practice Updated chapters discuss topics such as high welfare livestock systems the impact of automation and new technologies on production and welfare the ecological impact and sustainability issues of large scale production systems and more Provides a basic understanding of the principles and practices of professional and humane farm animal management Covers animal husbandry behavior as an indicator of animal welfare and the assessment monitoring and promotion of improved welfare at the farm level Offers updated information on free range poultry robot milking automated disease scanning and pastoral systems in the developing world Includes less common farm species such as South American camelids ostriches and game birds Management and Welfare of Farm Animals Sixth Edition remains the ideal textbook for students in professional technical or vocational education courses on the management and welfare of farm animals **Aquaponics Food Production Systems** Simon Goddek, Alyssa Joyce, Benz Kotzen, Gavin M. Burnell, 2019-06-21 This open access book written by world experts in aquaponics and related technologies provides the authoritative and

comprehensive overview of the key aquaculture and hydroponic and other integrated systems socio economic and environmental aspects Aquaponic systems which combine aquaculture and vegetable food production offer alternative technology solutions for a world that is increasingly under stress through population growth urbanisation water shortages land and soil degradation environmental pollution world hunger and climate change

Sustainable governance and management of food systems Eija Vinnari, Markus Vinnari, 2023-08-07 This book focuses on the role of governance and management in the food chain These methods are now especially important as the current food system has been found to inflict unsustainable environmental pressures on our planet These include but are not limited to greenhouse gas emissions biodiversity loss excessive water usage and problems with nutrition cycles In addition issues such as the treatment of farm animals has attracted considerable media and public attention from the ethical point of view Therefore the prominent questions discussed in this book are What are the most important ethical issues in our fisheries agriculture and food systems How should we govern food systems when sustainability is a key goal What kind of management tools are available for this purpose Who is responsible for making the agriculture and food system more sustainable

Are We Pushing Animals to Their Biological Limits? Temple Grandin, Martin Whiting, 2018-07-31 Stimulating and thought provoking this important new text looks at the welfare problems and philosophical and ethical issues that are caused by changes made to an animal's telos behaviour and physiology both positive and negative to make them more productive or adapted for human uses These changes may involve selective breeding for production appearance traits or competitive advantage in sport transgenic animals or the use of pharmaceuticals or hormones to enhance production or performance Changes may impose duties to care for these animals further and more intensely or they may make the animal more robust The book considers a wide range of animals including farm animals companion animals and laboratory animals It reviews the ethics and welfare issues of animals that have been adapted for sport as companions in work as ornaments food sources guarding and a whole host of other human functions This important new book sparks debate and is essential reading for all those involved in animal welfare and ethics including veterinarians animal scientists animal welfare scientists and ethologists

Seafood Supply Chains Miriam Greenwood, 2019-01-16 This book provides a historical and analytical account of changes in the seafood supply chain in Britain from the mid twentieth century to the present looking at the impact of various types of governance The governance of marine fisheries has been a contested issue for decades with increasing anxieties about overfishing In tandem the rise of aquaculture fish and shellfish farming has driven another set of environmental concerns In the food system there have been scandals about safety failures and about fraud At the same time governments issue advice urging people to eat fish for its health benefits In the context of these problems and contradictions how have governments the food industry and ordinary consumers responded The author shows how different types of governance and regulation have been used to seek seafood sustainability and food safety and to communicate nutritional messages to the public and with what

effects The book also presents a new model for understanding food chains which combines governance and power approaches with an emphasis on understanding the interests served and the resulting balance of public and private benefits This shows that the role of state regulation should have greater emphasis in governance and agri food analysis and that theories about supply chain functioning including the part played by major retailers and civil society should be modified by a more nuanced understanding of the role of standards and certification systems Although much of the focus is on the UK and Europe this book provides key lessons internationally for the governance of seafood and other agri food supply chains The book will be of interest to students of food policy and those working in the seafood industry or studying for connected qualifications and more widely to readers with an interest in seafood issues and problems **Blindness, Light, and the**

COVID-19 Pandemic Andres M. Perez,2021-08-24 **Future Food Systems** Rickey Y. Yada,Rene Van Acker,Martin Scanlon,David Gray,2024-06-13 Future Food Systems Exploring Global Production Processing Distribution and Consumption provides an overview of food systems from farming through to logistics processing retail service and consumption with the intention of enabling more efficient development of policy and implementation of food related practices The book presents the considerations which must be understood to develop effective and efficient policies and practices for any level of food system and along the continuum of those systems with attention being given to the academic public and private sector challenges and opportunities for progress efficiency effectiveness and sustainability Presented in parts to highlight key aspects of the subject area the book explores production practices including increasingly important programs in integrated farming systems vertical agriculture and urban farming processes value adding for commodities agricultural technology supply chain innovations and consumer considerations The book provides foundational insights into the underpinnings of today s food systems its challenges and its opportunities for the future Written by industry and academic experts for balanced perspective Presents foundational information with practical application insights Includes chapters on regulatory and policy issues The Siberian Sturgeon (Acipenser baerii, Brandt, 1869) Volume 2 - Farming Patrick Williot,Guy

Nonnotte,Mikhail Chebanov,2018-04-09 The Siberian sturgeon Acipenser baerii Brandt 1869 is the most widely farmed sturgeon species Continuing from Volume 1 which focuses on the biology of the species the present Volume 2 in turn examines farming aspects It is divided into six parts the first of which deals with reproduction and early ontogenesis i e reproductive cycles controlled reproduction sperm cryoconservation and weaning of larvae The second covers the growing phase with a focus on food and feeding management fish meal replacement potential endocrine disruptions usefulness of prebiotics and immunostimulants and nitrogen excretion Production related data are the focus of the third part and include characteristics countries structures of production evolution in production economic features of the gross production of the species meat and caviar worldwide a method for assessing the quality of caviars off flavors management and an example of production of fingerlings for restocking Part four addresses selected long term management issues genetic variability of

brood stocks genome manipulation and sex control and the advantages of hybrids The next three chapters constitute the fifth part which is devoted to health status immunology and welfare In closing the absence of ecological risks of introducing the species in non native waters is shown using two long term documented examples Russia and France Three methodological chapters round out the volume covering in vitro incubation of ovarian follicles a richly illustrated library of echographies and photos and a detailed presentation of oxygen demand studies

Climate change and sustainable development Thomas Potthast, Simon Meisch, 2012-08-13 Climate change is a major framing condition for sustainable development of agriculture and food Global food production is a major contributor to global greenhouse gas emissions and at the same time it is among the sectors worst affected by climate change This book brings together a multidisciplinary group of authors exploring the ethical dimensions of climate change and food Conceptual clarifications provide a necessary basis for putting sustainable development into practice Adaptation and mitigation demand altering both agricultural and consumption practices Intensive vs extensive production is reassessed with regard to animal welfare efficiency and environmental implications Property rights pay an ever increasing role as do shifting land use practices agro energy biotechnology food policy to green consumerism And last but not least tools are suggested for teaching agricultural and food ethics Notwithstanding the plurality of ethical analyses and their outcome it becomes apparent that governance of agri food is faced by new needs and new approaches of bringing in the value dimension much more explicitly This book is intended to serve as a stimulating collection that will contribute to debate and reflection on the sustainable future of agriculture and food production in the face of global change

Engineering Solutions for Sustainable Food and Dairy Production Sankar Chandra Deka, C. Nickhil, A. K. Haghi, 2025-01-31 This book offers a comprehensive exploration of food and dairy process engineering catering to a diverse audience ranging from students and budding engineers to seasoned professionals in the food industry It delves into a wide array of crucial topics each meticulously crafted to provide valuable insights into the complex world of food and dairy processing Engineering Solutions for Sustainable Food and Dairy Production begins by addressing the paramount concern of safety in the food industry tackling challenges and opportunities in ensuring the quality and integrity of food products The book promotes an understanding of the sources of dairy products and the practices involved in dairy farming which are pivotal for producing high quality dairy goods Raw material management and quality control techniques are covered in full as are fluid mechanics and heat transfer and pasteurization techniques Fermentation processes are explored in depth showcasing their significance in the creation of various food products Separation technologies such as filtration and centrifugation techniques are studied and evaporation and concentration techniques are discussed which enables the production of condensed and powdered items A full chapter is dedicated to food and dairy freezing and cooling techniques focusing on maintaining the correct temperature and various freezing and cooling methods For researchers in search of the most updated technologies and techniques for sustainable food and dairy processing this text functions as a singular source

Advances in Agricultural Animal Welfare Joy Mench, 2017-12-11 *Advances in Agricultural Animal Welfare* fully explores developments in the key areas of agricultural animal welfare assessment and improvement Analyzing current topical issues as well as reviewing the historical welfare issues the volume is a comprehensive review of the field Divided into five sections the book opens in Part One by reviewing advances in animal welfare science examining cognitive psychology genetics and genomics Part Two then looks at transdisciplinary research in animal welfare with coverage of bioethics welfare and sustainability from both environmental and food safety perspectives Part Three explores the process of translating science into policy and practice followed by discussion on the global achievability of welfare standards in Part Four Finally Part Five highlights some emerging issues in agricultural animal welfare This book is an essential part of the wider ranging series *Advances in Farm Animal Welfare* with coverage of cattle sheep pigs poultry and aquaculture With its expert editor and international team of contributors *Advances in Agricultural Animal Welfare* is a key reference tool for welfare research scientists and students practicing vets involved in welfare assessment and indeed anyone with a professional interest in the welfare of agricultural animals Provides in depth reviews of emerging topics research and applications in agricultural animal welfare Provides coverage of topics important to all agricultural animals and complements the wider series *Agricultural Animal Welfare* which will provide comprehensive coverage of animal welfare of the world s major farmed animals Edited by a world leading animal welfare academic with contributions from a writing team of both leading academics and practitioners

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