Global Aquaculture Feed Market Research Report 2017 | 9c8695586cb98a710bacaf30a25044d1

Global Perspectives on AstaxanthinInternational Food Law and Policy is the first interdisciplinary piece of academic literature of its kind with a comprehensive, reader-friendly approach to teaching the major aspects of food regulation, law, policy, food safety and environmental sustainability in a global context. The sections are grouped by continents and focus on a range of cross-disciplinary subjects, such as public health, international food trade, the right to food, intellectual property and global regulatory aspects of food production. With its systematic approach, this book will be a valuable resource both for professionals working in food regulation and anyone interested in the subject. It provides a solid foundation for courses and master’s programs in environmental management, food law, policy and regulation, and sustainable development around the world.

Global Trade Conference on Aquaculture

Marine Biologically Active Compounds as Feed Additives Tropical Mariculture takes an in-depth look at developmental activities in a growing industry striving towards sustainability and environmental integrity. All of the contributors to this book have considerable...
experience and expertise in the field of tropical mariculture, and this is the first book to bring expert contributions together. The topics covered are wide and varied, ranging from general issues such as the impact of mariculture on coastal ecosystems to genetic improvement of cultured marine species, as well as the specifics of breeding selected marine species of current importance, such as groupers and sea bass. Significant coverage is also given to the problems of larval rearing in inland aquaculture as well as the demands of water- and land-based resources in a tropical environment. This book will be essential for everyone working in and researching tropical mariculture.

Key Features
- Looks at developmental activities in tropical mariculture
- All of the contributors are experts in the field
- Covers specific breeding problems and larval rearing
- Studies the environmental impact of inland aquacultural activities
- Provides detailed examples of cultivated species in the tropics
- Compiles mariculture strategies and discusses example species
- First book to give an overview of tropical mariculture

Success Stories in Asian Aquaculture The fishing industry’s aggressive and expanding search for fish from the sea reached a turning point in 1990. After many years of increasing production, the global marine and inland catch from natural stocks declined from the 1989 peak of about 89 million tons to 85 million tons in 1993. Aquaculture production did not increase enough to meet the shortfall, and total production also fell in 1990 and 199. Present indications are that production from natural stocks will be below the current level in the year 2020; at best, it will maintain its present level. The author addresses five major issues: (1) maximizing the use of aquatic resources; (2) resource management; (3) intensification of fisheries exploitation; (4) integration of fisheries and aquaculture; and (5) the difficult problem of balancing national versus international interests.

State of World Aquaculture 2006 Coping with Global Environmental Change, Disasters and Security - Threats, Challenges, Vulnerabilities and Risks reviews conceptual debates and case studies focusing on disasters and security threats, challenges, vulnerabilities and risks in Europe, the Mediterranean and other regions. It discusses social science concepts of vulnerability and risks, global, regional and national security challenges, global warming, floods, desertification and drought as environmental security challenges, water and food security challenges and vulnerabilities, vulnerability mapping of environmental security challenges and risks, contributions of remote sensing to the recognition of security risks, mainstreaming early warning of conflicts and hazards and provides conceptual and policy conclusions.

Country Case Study Aquaculture, the farming of aquatic animals and plants, and other seafood businesses continue to grow rapidly around the world. However, many of these businesses fail due to the lack of sufficient attention to marketing. The Seafood and Aquaculture Marketing Handbook provides the reader with a comprehensive, yet user-friendly presentation of key concepts and tools necessary for aquaculture and seafood businesses to evaluate and adapt to changing market conditions. Markets for aquaculture and seafood products are diverse, dynamic, and complex. The Seafood and Aquaculture Marketing Handbook presents fundamental principles of marketing, specific discussion of aquaculture and seafood market channels and supply chains from around the world, and builds towards a step-by-step approach to strategic market planning for successful aquaculture and seafood businesses. This book is an
essential reference for all aquaculture and seafood businesses as well as students of aquaculture. The volume contains a series of synopses of specific markets, an extensive annotated bibliography, and webliography for additional sources of information. Written by authors with vast experience in international marketing of aquaculture and seafood products, this volume is a valuable source of guidance for those seeking to identify profitable markets for their aquaculture and seafood products.

Global Agricultural Trade and Developing Countries

2018 The State of World Fisheries and Aquaculture Aquaculture now provides more than 50% of the global supply of fisheries products for direct human consumption. This workshop proceedings discusses critical economic, environmental and social aspects of aquaculture.

Introduction to Tropical Fish Stock Assessment Markets, marketing, and trade have become ever more important to growing aquaculture industries worldwide. The diversity and idiosyncrasies of the aquaculture and seafood markets call for understanding information that is unique to these markets. Presenting fundamental principles of marketing and economics from a user-friendly, how-to perspective, the Aquaculture Marketing Handbook will provide the reader with the tools necessary to evaluate and adapt to changing market conditions. The Aquaculture Marketing Handbook provides the reader with a broad base of information regarding aquaculture economics, markets, and marketing. In addition, this volume also contains an extensive annotated bibliography and webliography that provide descriptions to key additional sources of information. Written by authors with vast international aquaculture marketing experience, the Aquaculture Marketing Handbook is an important introduction to aquaculture marketing for those interested in aquaculture and those new to the professional field. The body of knowledge presented in this book will also make it a valuable reference for even the most experienced aquaculture professional.

Tropical Mariculture The 2020 edition of The State of World Fisheries and Aquaculture has a particular focus on sustainability. This reflects a number of specific considerations. First, 2020 marks the twenty-fifth anniversary of the Code of Conduct for Responsible Fisheries (the Code). Second, several Sustainable Development Goal indicators mature in 2020. Third, FAO hosted the International Symposium on Fisheries Sustainability in late 2019, and fourth, 2020 sees the finalization of specific FAO guidelines on sustainable aquaculture growth, and on social sustainability along value chains. While Part 1 retains the format of previous editions, the structure of the rest of the publication has been revised. Part 2 opens with a special section marking the twenty-fifth anniversary of the Code. It also focuses on issues coming to the fore, in particular, those related to Sustainable Development Goal 14 and its indicators for which FAO is the “custodian” agency. In addition, Part 2 covers various aspects of fisheries and aquaculture sustainability. The topics discussed range widely, from data and information systems to ocean pollution, product legality, user rights and climate change adaptation. Part 3 now forms the final part of the publication, covering projections and emerging issues such as new technologies and aquaculture biosecurity. It concludes by outlining steps towards a new vision for capture fisheries. The State of World Fisheries and Aquaculture aims to provide objective, reliable and up-to-date information to a wide audience – policymakers, managers, scientists, stakeholders and indeed everyone
interested in the fisheries and aquaculture sector.

Fisheries and Aquaculture Global Agricultural Trade and Developing Countries presents research findings based on a series of commodity studies of significant economic importance to developing countries. The book sets the stage with background chapters and investigations of cross-cutting issues. It then describes trade and domestic policy regimes affecting agricultural and food markets, and assesses the resulting patterns of production and trade. The book continues with an analysis of product standards and costs of compliance and their effects on agricultural and food trade. The book also investigates the impact of preferences given to selected countries and their effectiveness, then reviews the evidence on the attempts to decouple agricultural support from agricultural output. The last background chapter explores the robustness of the global gains of multilateral agricultural and food trade liberalization. Given this context, the book presents detailed commodity studies for coffee, cotton, dairy, fruits and vegetables, groundnuts, rice, seafood products, sugar, and wheat. These markets feature distorted policy regimes among industrial or middle-income countries. The studies analyze current policy regimes in key producing and consuming countries, document the magnitude of these distortions and estimate the distributional impacts - winners and losers - of trade and domestic policy reforms. By bringing the key issues and findings together in one place, Global Agricultural Trade and Developing Countries aids policy makers and researchers, both in their approach to global negotiations and in evaluating their domestic policies on agriculture. The book also complements the recently published Agriculture and the WTO, which focuses primarily on the agricultural issues within the context of the WTO negotiations.

Sustainable Aquaculture

Coping with Global Environmental Change, Disasters and Security To date textbooks on viruses infecting fish, crustaceans and molluscs, the three main aquatic animal farmed groups, have been on the whole “diseases-centric and individual viral diseases selected based on “epizoo-centric approaches with little to no coverage of the basic biology of the viruses, in contrast to textbooks on viruses infecting terrestrial - farmed, pet, and free-range (wild) - animals and humans. Despite considerable advances in animal virology in recent years coupled with an economically important global aquaculture industry, knowledge of viruses of animal aquaculture is still sparse and in some cases outdated although these viruses are closely related to well-known virus families. The last book in fish virology (Fish viruses and fish viral diseases 1988, Wolf, K.) was published in the 1980s. A lot of work has been done on fish viruses and many new aquatic animal viruses continue to be discovered. Aquaculture Virology provides the current state of knowledge of aquatic animal viruses within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology. This book is a systematic and concise resource useful to anyone involved with or looking to move into aquaculture and fisheries. Clinical veterinarians, aquaculture disease practitioners, biologists, farmers, and all those in industry, government or academia who are interested in aquatic animal virology will find this book extremely useful. Provides unique comprehensive information on animal viruses for aquaculture and fisheries Presents high quality illustrations of viral structure, diagrams of viral disease processes, gross pathology and histopathology lesions, and summary tables to aid in understanding Describes aquatic animal viruses of the three major aquatic
animals, fish, crustaceans, and molluscs, within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology.

Aquaculture in the Third Millennium The commercial aquaculture feed industry in Egypt is growing at a rapid rate. As a result, the number of fish feed mills has increased from just 5 mills producing about 20,000 t per year in 1999, to over 60 mills with a current production estimate of 800,000-1,000,000 t/year. The performance of the aquafeed industry in Egypt is not well understood, as the value chain structure has not yet been mapped. This study aims to assess the status of the fish feed sector in Egypt, with an emphasis on: mapping and understanding fish feed value chains, describing the main actors and stakeholders within the chain, assessing value chain performance, identifying major strengths and weakness of the sector, and suggesting appropriate actions, management and development strategies.

Blue Frontiers The 2018 edition of The State of World Fisheries and Aquaculture emphasizes the sector’s role in achieving the 2030 Agenda for Sustainable Development and the Sustainable Development Goals, and measurement of progress towards these goals. It notes the particular contributions of inland and small-scale fisheries, and highlights the importance of rights-based governance for equitable and inclusive development. As in past editions, the publication begins with a global analysis of trends in fisheries and aquaculture production, stocks, processing and use, trade and consumption, based on the latest official statistics, along with a review of the status of the world’s fishing fleets and human engagement and governance in the sector. Topics explored in Parts 2 to 4 include aquatic biodiversity; the ecosystem approach to fisheries and to aquaculture; climate change impacts and responses; the sector’s contribution to food security and human nutrition; and issues related to international trade; consumer protection and sustainable value chains. Global developments in combating illegal, unreported and unregulated fishing, selected ocean pollution concerns and FAO’s efforts to improve capture fishery data are also discussed. The issue concludes with the outlook for the sector, including projections to 2030. As always, The State of World Fisheries and Aquaculture aims to provide objective, reliable and up-to-date information to a wide audience, including policy-makers, managers, scientists, stakeholders and indeed all those interested in the fisheries and aquaculture sector.

The Transition in the Contribution of Living Aquatic Resources to Food Security This Special Issue presents high-quality research papers as well as review articles addressing recent advances in the use of marine bioactives in animal nutrition. The marine environment constitutes a relatively untapped source of biologically active compounds that can be applied in various areas, such as improvement of animal performance, health maintenance, and disease prevention. Numerous marine-based compounds isolated from marine organisms (especially seaweeds) have diverse biological activities, including antioxidative, anti-inflammatory, antibacterial, antifungal, and antiviral activities that can be beneficial to animal health. Additionally, the application of marine bioactives as feed additives can increase the nutritional value of products of animal origin. In this Special Issue, the main attention was focused on seaweeds and their application in poultry (laying hen and broiler chickens) and pig feed. The suitable processing of marine resources required for their optimal use as
feed/feed additives was underlined. The contained publications present scientific evidence for the use of various seaweeds as feed additives that improve health (enhanced immunity, prebiotic effect), growth performance, and production. Inclusion of this unconventional material in animal nutrition can enrich products with active compounds, such as micro- and macroelements, polyunsaturated fatty acids, and pigments which are beneficial for consumers.

Aquaculture Virology Aquaculture is a rapidly growing, successful approach to improving diets by providing more high quality fish and shellfish protein. It is also an industry with major unresolved issues because of its negative impact on the environment. This book is a pioneering effort in the development of environmentally benign aquaculture methods.

Kirk-Othmer Food and Feed Technology, 2 Volume Set At its Fifteenth Regular Session, the Commission on Genetic Resources for Food and Agriculture endorsed the preparation of a thematic study on the genetic resources of freshwater aquatic macrophytes (FAMs) of relevance for food and agriculture. This is an initiative in support of the preparation of the Report on The State of the World’s Aquatic Genetic Resources for Food and Agriculture (http://www.fao.org/3/CA0454EN/ca0454en.pdf). The purpose of this study is to enhance the understanding of the relevance of FAMs for food security and human well-being. The cultivation of FAMs for food production, as well as for non-food uses, has long been unrecognized and underreported in most national and international agriculture and aquaculture statistics, including statistics regularly reported to the Food and Agriculture Organization of the United Nations (FAO) by Member Countries. However, it is well known that cultivated FAMs play a pivotal role in food security in many countries, especially in the developing countries of South and Southeast Asia.

Advancing the Aquaculture Agenda Workshop Proceedings

Thematic Background Study – Genetic resources for farmed freshwater macrophytes: a review FAO Fisheries and Aquaculture Technical Papers Based on three aquaculture systems (Nile tilapia in Bangladesh, Indian major carps in India and striped catfish in Viet Nam), this publication explains where and how greenhouse gas emissions arise in Asian aquaculture. It highlights the variations within each farming system at every stage, and makes suggestions for methods that could both develop cost-effective ways of improving aquaculture and reduce related emission intensities.

Scientific Advances in Animal Nutrition This book examines how the adaptability and innovation of small-scale aquaculture farmers have been crucial to success in the region. It describes the relationship between aquaculture development in Asia to natural systems, social conditions and economics.

average annual growth rate of world aquatic animal production slowed to 6.4 percent in the period 2001–2015. Bringing together information from six regional reviews, this report examines how the aquaculture sector has performed over the past five years and draws lessons for ensuring sustainable growth and expansion in the years ahead.

Animal feeds. The conference was developed in five sessions. In the first session, “Aquaculture Growing Strength”, an overview on production and trade was followed by five commodity presentations showing the success in shrimp, salmon, tilapia, catfish and bivalve aquaculture. The second session on “Challenges” highlighted the current and future challenges facing the sector. These included challenges related to assuring food safety in aquaculture products, maintaining and improving consumers’ perceptions of the quality and environmental acceptability of aquaculture, improving aquatic animal health management, addressing issues related to feed quality and availability, and improving the view investors take to assure economic and financial sustainability. During the third session, the “Advantages and Opportunities” of aquaculture were covered by taking into account the globalization process and the requirements of processors and the food service and retail sectors, which all seem to have a preference for aquaculture products under special conditions. Seafood and health benefits, and the potential offered new species were seen as driving factors in the aquaculture sector. The opportunities and challenges for the small-scale fish farmers in Southeast Asia were also considered. The fourth session was fully dedicated to the aquaculture sector in China, with presentations on the domestic market, the export potential, safety and quality inspection and China’s role in reprocessing seafood for re-export to the global market. In the last session on “Progress - The Future”, the future developments expected for aquaculture were covered. Here the interaction between capture fisheries and aquaculture was analyzed and also presented in a case study on wild and aquacultured salmon. Aquaculture was viewed within the context of other intensive animal production systems. The enormous potential of the technical innovations in aquaculture compared to capture fisheries was highlighted under the term of “Blue revolution”. The last session was closed with a description of the political framework required to allow for the sustainable development of aquaculture.

World Aquaculture

International Food Law and Policy Aquaculture, the farming of aquatic animals and plants, and other seafood businesses continue to grow rapidly around the world. However, many of these businesses fail due to the lack of sufficient attention to marketing. The Seafood and Aquaculture Marketing Handbook provides the reader with a comprehensive, yet user-friendly presentation of key concepts and tools necessary for aquaculture and seafood businesses to evaluate and adapt to changing market conditions. Markets for aquaculture and seafood products are diverse, dynamic, and complex. The Seafood and Aquaculture Marketing Handbook presents fundamental principles of marketing, specific discussion of aquaculture and seafood market channels and supply chains from around the world, and builds towards a step-by-step approach to strategic market planning for successful aquaculture and seafood businesses. This book is an essential reference for all aquaculture and seafood businesses as well as students of aquaculture. The volume contains a series of synopses of specific markets, an extensive annotated bibliography, and webliography for additional sources of information. Written by
authors with vast experience in international marketing of aquaculture and seafood products, this volume is a valuable source of guidance for those seeking to identify profitable markets for their aquaculture and seafood products.

Aquaculture Marketing Handbook

Planning for aquaculture diversification: the importance of climate change and other drivers Global Perspectives on Astaxanthin: From Industrial Production to Food, Health, and Pharmaceutical Applications explores the range of practical applications for this molecule, focusing on nutraceutical, pharmaceutical and cosmeceutical products, along with food and feed. This volume brings together the most relevant research, background and future thinking on astaxanthin, focusing on its health benefits. Chapters cover phytopharmaceuticals, industrial production, feeds, downstream processing, regulations, products, color, pigment, cosmetics, bioactive compounds, relationships to other carotenoids, and skin care. The detailed information on its production, processing, utilization and future applications will be of particular use to academic and industry researchers in pharmaceutical sciences, pharmacology and nutrition. Provides detailed information on astaxanthin, including its production, processing, utilization and future applications Includes discussion on the commercial analysis procedure Offers critical analysis on current and potential applications of astaxanthin as contributed by 121 authors from 22 countries in academia, research institutes and industries

Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations for 2004

Fish to 2020 This book is a compilation of studies that explore opportunities for profitability for aquaculture practitioners through the creation and delivery of value from cost leadership and/or product differentiation. The studies focus on producer and consumer issues as well as trade. Some farm management and production practices that influence domestic costs and enhance profitability are examined. Opportunities for niche and target marketing are also presented as avenues for competitiveness for the aquaculture industry. Imports of seafood from Vietnam has been one of the major challenges facing the US aquaculture industry, and this book presents some results from a study on international trade of Vietnam’s catfish (basra/tra) and the effects on the US catfish industry. This book was published as a special issue of Aquaculture Economics & Management.

Seafood and Aquaculture Marketing Handbook Aquaculture is developing, expanding and intensifying in almost all regions of the world, except in sub-Saharan Africa. Although the sector appears to be capable of meeting the gap between future demand and supply for aquatic food, there are many constraints and challenges which must be addressed in order to at least maintain the present level of per capita consumption at the global level. Key issues are the need for enhanced enforcement of regulation and better governance of the sector, as well as greater producer participation in the decision-making and regulation process. This publication examines past trends in aquaculture development as well as the current global status, drawing on a number of national and regional reviews.
Greenhouse gas emissions from aquaculture

The Market for Aquaculture Products

2014–2015 Global Food Policy Report The goal of WorldFish’s research on markets and value chains is to increase the benefits to resource-poor people from fisheries and aquaculture value chains by researching (1) key barriers to resource-poor men, women and other marginalized groups gaining greater benefits from participation in value chains, including barriers related to the availability, affordability and quality of nutrient-rich fish for resource-poor consumers; (2) interventions to overcome those barriers; and (3) mechanisms that are most effective for scaling up of value chain interventions. This paper aims to promote and document learning across WorldFish’s value chain research efforts in Asia and Africa. It has three main objectives: (1) to take stock of WorldFish’s past and ongoing research on value chains; (2) to draw out commonalities and differences between these projects; and (3) to provide a synthesis of some learning that can guide future work.

World List of Aquatic Sciences and Fisheries Serial Titles The science of animal nutrition has made significant advances in the past century. In looking back at the discoveries of the 20th century, we can appreciate the tremendous impact that animal nutrition has had on our lives. From the discovery of vitamins and the sweeping shift in the use of oilseeds to replace animal products as dietary protein sources for animals during the war times of the 1900s-to our integral understanding of nutrients as regulators of gene expression today-animal nutrition has been the cornerstone for scientific advances in many areas. At the milestone of their 70th year of service to the nation, the National Research Council's (NRC) Committee on Animal Nutrition (CAN) sought to gain a better understanding of the magnitude of recent discoveries and directions in animal nutrition for the new century we are embarking upon. With financial support from the NRC, the committee was able to organize and host a symposium that featured scientists from many backgrounds who were asked to share their ideas about the potential of animal nutrition to address current problems and future challenges.

World aquaculture 2015: a brief overview This two-volume set features selected articles from the Fifth Edition of Wiley's prestigious Kirk-Othmer Encyclopedia of Chemical Technology. This compact reference features the same breadth and quality of coverage found in the original, but with a focus on topics of particular interest to food technologists, chemists, chemical and process engineers, consultants, and researchers and educators in food and agricultural businesses, alcohol and beverage industries, and related fields.

Agriculture, Rural Development, and Related Agencies Appropriations for Fiscal Year 1996 FAO Fisheries and Aquaculture Proceedings These proceedings, from a workshop convened by FAO and World Fisheries Trust (Canada), summarize diversification successes and opportunities in all major world regions, and identify general principles to guide diversification in aquaculture. The document includes an assessment of main strategies and future steps, not only in terms of purely economic costs but also in development costs, including evaluation and mitigation of environmental and social impacts and establishment of species-specific biosecurity frameworks.
Value chain analysis of the Egyptian aquaculture feed industry This is the ninth volume of ten in the The Natural History of the Crustacea Series. The chapters in this volume synthesize the diverse topics in fisheries and aquaculture. In the first part of the book, chapters explore worldwide crustacean fisheries. This section comes to a conclusion with two chapters on harvested crustaceans that are usually not within the focus of the mainstream fisheries research, possibly because they are caught by local fishing communities in small-scale operations and sold locally as subsistence activity. In the second part of the book, the authors explore the variety of cultured crustacean species, like shrimps, prawns, lobsters, and crabs. Chapters in the third part of the volume focus on important challenges and opportunities, including diseases and parasitism, the use of crustacean as bioindicators, and their role in biotechnology.

Value chain transformation: Taking stock of WorldFish research on value chains and markets

The State of World Fisheries and Aquaculture 2020 This 2014–2015 Global Food Policy Report is the fourth in an annual series that provides a comprehensive overview of major food policy developments and events. In this report, distinguished researchers, policymakers, and practitioners review what happened in food policy in 2014 at the global, regional, and national levels, and—supported by the latest knowledge and research—explain why. This year’s report is the first to also look forward a year, offering analysis of the potential opportunities and challenges that we will face in achieving food and nutrition security in 2015.

Seafood and Aquaculture Marketing Handbook

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