

The Economics Of Animal Health And Production

Health Economics That Sheep May Safely Graze Animal Welfare and Meat Production Health and Animal Agriculture in Developing Countries Production diseases in farm animals Veterinary Epidemiology and Economics in Africa Camel Meat and Meat Products Tackling Climate Change Through Livestock Veterinary Epidemiology Air Emissions from Animal Feeding Operations Vitamin K2 One Health: The Human-Animal-Environment Interfaces in Emerging Infectious Diseases Animal Spirits The Economics of Livestock Disease Insurance Compassion, by the Pound The Use of Drugs in Food Animals Animals and the Shaping of Modern Medicine Economics in Nature The Economics of Farm Animal Welfare A Framework for Assessing Effects of the Food System The Economics of Livestock Disease Insurance One Health Animal Influenza Animal Health Economics Workforce Needs in Veterinary Medicine Plant-Based Diets for Succulence and Sustainability Animal Health Economics Diagnosis and Control of Johne's Disease Animal Welfare The Economics of Animal Health and Production The Regulation of Animal Health and Welfare Critical Role of Animal Science Research in Food Security and Sustainability The Welfare of Cattle Companion Animal Economics OECD Study on the World Organisation for Animal Health (OIE) Observatory Strengthening the Implementation of International Standards Meat Economics Proceedings of the Inaugural ISESSAH Conference Ruminants Economic Analysis of

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Animal DiseasesThe Economics of Health and Medical Care

Health Economics

How we produce and consume food has a bigger impact on Americans' well-being than any other human activity. The food industry is the largest sector of our economy; food touches everything from our health to the environment, climate change, economic inequality, and the federal budget. From the earliest developments of agriculture, a major goal has been to attain sufficient foods that provide the energy and the nutrients needed for a healthy, active life. Over time, food production, processing, marketing, and consumption have evolved and become highly complex. The challenges of improving the food system in the 21st century will require systemic approaches that take full account of social, economic, ecological, and evolutionary factors. Policy or business interventions involving a segment of the food system often have consequences beyond the original issue the intervention was meant to address. A Framework for Assessing Effects of the Food System develops an analytical framework for assessing effects associated with the ways in which food is grown, processed, distributed, marketed, retailed, and consumed in the United States. The framework will allow users to recognize effects across the full food system, consider all domains and dimensions of effects, account for systems dynamics and complexities, and choose appropriate methods for analysis. This report provides example applications of

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the framework based on complex questions that are currently under debate: consumption of a healthy and safe diet, food security, animal welfare, and preserving the environment and its resources. A Framework for Assessing Effects of the Food System describes the U.S. food system and provides a brief history of its evolution into the current system. This report identifies some of the real and potential implications of the current system in terms of its health, environmental, and socioeconomic effects along with a sense for the complexities of the system, potential metrics, and some of the data needs that are required to assess the effects. The overview of the food system and the framework described in this report will be an essential resource for decision makers, researchers, and others to examine the possible impacts of alternative policies or agricultural or food processing practices.

That Sheep May Safely Graze

The global financial crisis has made it painfully clear that powerful psychological forces are imperiling the wealth of nations today. From blind faith in ever-rising housing prices to plummeting confidence in capital markets, "animal spirits" are driving financial events worldwide. In this book, acclaimed economists George Akerlof and Robert Shiller challenge the economic wisdom that got us into this mess, and put forward a bold new vision that will transform economics and restore prosperity. Akerlof and Shiller reassert the necessity of an active government role in economic policymaking by recovering the idea of animal spirits,

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a term John Maynard Keynes used to describe the gloom and despondence that led to the Great Depression and the changing psychology that accompanied recovery. Like Keynes, Akerlof and Shiller know that managing these animal spirits requires the steady hand of government--simply allowing markets to work won't do it. In rebuilding the case for a more robust, behaviorally informed Keynesianism, they detail the most pervasive effects of animal spirits in contemporary economic life--such as confidence, fear, bad faith, corruption, a concern for fairness, and the stories we tell ourselves about our economic fortunes--and show how Reaganomics, Thatcherism, and the rational expectations revolution failed to account for them. Animal Spirits offers a road map for reversing the financial misfortunes besetting us today. Read it and learn how leaders can channel animal spirits--the powerful forces of human psychology that are afoot in the world economy today. In a new preface, they describe why our economic troubles may linger for some time--unless we are prepared to take further, decisive action.

Animal Welfare and Meat Production

It is very essential to understand the recent advances in ruminant science to recognize and control diseases and disorders in these animals. Our book, Ruminants - The Husbandry, Economic and Health Aspects, provides a concise introductory chapter and details about the main aspects of ruminants' science and production. This is the first edition of the book, so it covers the introductory level of topics, which are

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written specifically for veterinary students, classroom use, and practitioners who require more knowledge of dairy animal health and production. The book covers an introductory chapter and sections on husbandry and economics as well as animal health. Each book section comprises chapters from renowned experts from the area and gives readers a unique opportunity to explore the topic.

Health and Animal Agriculture in Developing Countries

High producing farm animals are permanently challenged by a variety of factors: lack of proper nutrition (deficit/surplus), housing systems, infections and stress. The incidence, course and outcome of production diseases are changing continuously. Therefore new information on prevention, diagnosis and treatment of production diseases is needed. These problems are complicated by the discussion of animal welfare, the rapid changes in agricultural production and the economics of production. The following key topics are handled: Fatty liver in dairy cows Alternatives to growth-promoting antibiotics Chronic inflammation and animal production Animal behavior and welfare in intensive production systems Epidemiology of production diseases New techniques in immunoprophylaxis Nutrition-immunology and production-immunology relationships Phosphorus nutrition: animal health and environmental concerns Application of genomics to production disease Role of specific fatty acids in animal health, reproduction, and performance Trace mineral nutrition and metabolism

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Subclinical rumen acidosis

Production diseases in farm animals

Veterinary Epidemiology and Economics in Africa

Studies of sexual selection, interspecific mutualism, and intraspecific cooperation show that individuals exchange commodities to their mutual benefit. The exchange values of commodities are a source of conflict, and behavioral mechanisms such as partner choice and contest between competitors determines the composition of trading pairs or groups. These "biological markets" can be examined to gain a better understanding of the underlying principles of evolutionary ecology. In this volume scientists from different disciplines combine insights from economics, evolutionary biology, and the social sciences to look at comparative aspects of economic behavior in humans and other animals.

Camel Meat and Meat Products

Tackling Climate Change Through Livestock

Air Emissions from Animal Feeding Operations: Current Knowledge, Future Needs discusses the need for the U.S. Environmental Protection Agency to implement a new method for estimating the amount

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of ammonia, nitrous oxide, methane, and other pollutants emitted from livestock and poultry farms, and for determining how these emissions are dispersed in the atmosphere. The committee calls for the EPA and the U.S. Department of Agriculture to establish a joint council to coordinate and oversee short - and long-term research to estimate emissions from animal feeding operations accurately and to develop mitigation strategies. Their recommendation was for the joint council to focus its efforts first on those pollutants that pose the greatest risk to the environment and public health.

Veterinary Epidemiology

Annotation. Illustrated with review studies on animal health economics, this book presents information on the most important economic tools applied to livestock, covering both theory and practical applications. Topics covered include gross margin analysis, partial budgeting, investment and financial appraisal and cost-benefit analysis. There are also sections on decision tree analysis, optimisation methods, value chain analysis, new institutional economics, DALYs and a range of policy analysis tools. International experts contribute on important theoretical and practical aspects of animal health and production economics, with global themes on livestock and poverty.

Air Emissions from Animal Feeding Operations

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"It is essential reading for students and practitioners in animal welfare and animal science, and will also be of interest to readers in meat, veterinary and food sciences, and applied ethology."--BOOK JACKET.

Vitamin K2

This book is open access under a CC BY 4.0 license. This book breaks new ground by situating animals and their diseases at the very heart of modern medicine. In demonstrating their historical significance as subjects and shapers of medicine, it offers important insights into past animal lives, and reveals that what we think of as 'human' medicine was in fact deeply zoological. Each chapter analyses an important episode in which animals changed and were changed by medicine. Ranging across the animal inhabitants of Britain's zoos, sick sheep on Scottish farms, unproductive livestock in developing countries, and the tapeworms of California and Beirut, they illuminate the multi-species dimensions of modern medicine and its rich historical connections with biology, zoology, agriculture and veterinary medicine. The modern movement for One Health - whose history is also analyzed - is therefore revealed as just the latest attempt to improve health by working across species and disciplines. This book will appeal to historians of animals, science and medicine, to those involved in the promotion and practice of One Health today.

One Health: The Human-Animal-Environment Interfaces in Emerging

Infectious Diseases

Contains a selection of White Papers, commissioned to better inform the exploration of cattle welfare.

These are prepared by notable experts in their field, to help provide factual context around selected topics that impact cattle welfare and production systems.

Covers all aspects of cattle use in an accessible style, making this a must have volume for anyone interested in cattle welfare or cattle medicine.

Provides an in-depth picture of the distinctive beef and dairy cattle welfare practices and issues, covering topics such as behavior, breeding and genetic

manipulation, nutrition and feeding, housing and management, health and disease, and transport and

slaughter. Written by acknowledged leaders in animal science, veterinary science, philosophy and animal welfare, presenting a truly multidisciplinary

perspective on cattle welfare. Includes a section on understanding and managing animal welfare in both beef and dairy cattle, discussing how cattle perceive

the world, animal handling and pain mitigation, and how to assure that the cows have a reasonably good

life. The Welfare of Cattle offers an accurate, detailed account of the ethical and welfare concerns related to the human use of cattle. There is currently no

significant book dealing with the welfare of cows,

animals often seen as archetypal paradigms of 'farm animals'. Covering both beef and dairy cattle, the

expert authors provide in-depth information on the husbandry roots of traditional agriculture, the

replacement of this system of stewardship by an industrial model, and the resulting welfare challenges

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associated with industrial agriculture: feedlots, highly industrialized dairies, and slaughterhouses killing huge numbers of animals who have been transported great distances. This important book explores in detail the ways in which people who are providing care for cattle can take their first step, or their next step, toward enhancing the welfare of these animals.

Animal Spirits

This book on the economics of livestock disease insurance is organized into three major parts. Following an introduction (chapters 1-2), part II (chapters 3-8) includes a variety of discussions about what is known about how to build a livestock insurance programme. It begins with a look at the conceptual basis for government involvement in the management of livestock diseases, including prevention, control, regulation and eradication. This discussion is picked up by looking at incentive compatibility and insurability conditions in the private sector, emphasizing how livestock disease management is unique. Compensation is also examined, including what losses should be compensated, choosing a method to value the losses, determining the portion of losses to compensate, and outlining a potential role for insurance. Finally, the complexity of the risks at the farm level is demonstrated using a model that evaluates revenue insurance. Part III (chapters 9-20) offers a diverse discussion about disease management issues and programmes in Australia, Canada, Europe and the USA. These chapters include more discussion about

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how to build economically sound insurance programmes, and observations are based on modelling or observing case studies. The book has a subject index.

The Economics of Livestock Disease Insurance

An introduction to the planning and evaluation of disease control policy; Epidemiology: some basic concepts and definitions; The use of descriptive statistics in the presentation of epidemiological data; The epidemiological approach to investigating disease problems; Statistical methods in the analysis of epidemiological data; An introduction to the use of economics in the planning and evaluation of disease control programmes; Estimating the costs of diseases and the benefits of their control; Economics and decision-making in disease control policy; Modelling in veterinary epidemiology and economics.

Compassion, by the Pound

Basic principles. Epidemiologic concepts. Sampling methods. Measurement of disease frequency and production. Studying disease in animal populations. Descriptive epidemiology. Disease causation. Surveys and analytic observational studies. Design of field trials. Theoretical epidemiology: systems analysis and modeling. Animal health economics. Applied epidemiology. Rationale, strategies, and concepts of animal disease control. Monitoring disease and production. Field investigations.

The Use of Drugs in Food Animals

A guide to the field of animal health economics and its underlying methodology. Supplied with this book is a diskette, containing practical exercises (in computer spreadsheets) on the various methods and techniques in animal health economics, including production function analysis.

Animals and the Shaping of Modern Medicine

Animal health and economics are closely linked. Any decision taken to prevent, control and eliminate an animal disease is based not only on the technical knowledge available about a particular disease but also on the effectiveness and socio-economic aspects associated with interventions and mitigation measures implemented by governments, producers and all the actors along the livestock value chains. Economic rationale drives decisions in assessing particular investments which are likely to result in a benefit for society or for a specific stakeholder, including livestock farmers and communities. These guidelines prepared by FAO will contribute to a better understanding of the importance of economic analysis when assessing the impact of a particular animal disease in production, trade, market access, food security and livelihoods of rural communities, or when designing or implementing an animal health strategy at national, regional or global level. This framework will provide a good communication tool between animal health technicians, veterinarians and

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economists in developing countries and will encourage a well informed collaboration between veterinarians, animal health experts, economists and social scientists for livestock and socio-economic development. Economic analysis should be an essential part of animal disease policies and disease management strategies.

Economics in Nature

This collection takes an interdisciplinary look at how the transformation towards plant-based diets is becoming more culturally acceptable, economically accessible, technically available and politically viable. We offer strategies for achieving sustainable food systems without having to forgo succulence, sensuality and sacredness of food. Shifting food systems is one of humanity's biggest challenges and greatest opportunities. This book explores adaptable and health-promoting plant-based diets, which by their nature can support nourishing environmental, social, ethical, political, and economic outcomes. In this book, detailed descriptions are provided of what constitutes a healthy plant-based diet and active lifestyle. Readers are invited to engage with a community of practitioners delving more deeply into strategies for transitioning societies to greater succulence and sustainability. Throughout the first section of the book, environmental challenges and opportunities for reversing climate change are highlighted as our most urgent action. The focus then turns to global food systems and the intersections that are undermining human and animal health. The

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final section offers preventative approaches and encourages reorienting systems of law, economics and education to exemplify integrity, coordination, coherence and compassion. This book will be of interest to students and academics, as well as policy professionals in all fields engaging with complex issues and systems analyses. It will be of value to those working in health services, policy development, agriculture, economic development, and social change as it provides steps to enhance well-being, pathways to increase jobs in the green economy, and practical ideas to reverse greenhouse gas emissions. It may also be a superb guide for individuals and families looking to become vibrant eaters and leaders.

The Economics of Farm Animal Welfare

Camel meat has many benefits as a meat product. It has low fat content and is highly nutritious, and has potential to be used to combat hyperacidity, hypertension, pneumonia and respiratory disease. This book reviews up-to-date literature on camel meat and meat products, carcass and meat quality characteristics, muscle structure, post-mortem analysis and the nutritive value to humans. A comparatively small component of global meat consumption, camel meat has the potential to undergo an explosion of production worldwide, and currently farming for camel meat in Asia, Africa, Latin America and Australia is undergoing significant expansion. The potential of camel meat in helping to meet projected world food shortages, and being sustainably farmed, is also explored by the editors.

A Framework for Assessing Effects of the Food System

The use of drugs in food animal production has resulted in benefits throughout the food industry; however, their use has also raised public health safety concerns. The Use of Drugs in Food Animals provides an overview of why and how drugs are used in the major food-producing animal industries--poultry, dairy, beef, swine, and aquaculture. The volume discusses the prevalence of human pathogens in foods of animal origin. It also addresses the transfer of resistance in animal microbes to human pathogens and the resulting risk of human disease. The committee offers analysis and insight into these areas Monitoring of drug residues. The book provides a brief overview of how the FDA and USDA monitor drug residues in foods of animal origin and describes quality assurance programs initiated by the poultry, dairy, beef, and swine industries. Antibiotic resistance. The committee reports what is known about this controversial problem and its potential effect on human health. The volume also looks at how drug use may be minimized with new approaches in genetics, nutrition, and animal management. November

The Economics of Livestock Disease Insurance

This book serves as a comprehensive survey of the impact of vitamin K2 on cellular functions and organ systems, indicating that vitamin K2 plays an

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important role in the differentiation/preservation of various cell phenotypes and as a stimulator and/or mediator of interorgan cross talk. Vitamin K2 binds to the transcription factor SXR/PXR, thus acting like a hormone (very much in the same manner as vitamin A and vitamin D). Therefore, vitamin K2 affects a multitude of organ systems, and it is reckoned to be one positive factor in bringing about "longevity" to the human body, e.g., supporting the functions/health of different organ systems, as well as correcting the functioning or even "curing" ailments striking several organs in our body. Vitamin K2 - Vital for Health and Wellbeing has been produced and distributed through the support from Kappa Bioscience, Norway.

One Health

In recent years the livestock sector has been hit by a number of high-profile diseases, such as BSE, Foot and Mouth Disease and Avian Influenza. These have had a devastating economic impact on livestock producers and the broader livestock industry. One key response has been a growing interest in livestock disease insurance. However there is a need for greater understanding of private incentives, market impacts, and public policy perspectives on regional, national and international levels, if livestock insurance products and complementary risk management programmes are to be developed. This book provides a balanced and broad-ranging overview of the economics of livestock disease insurance. It covers both general issues and specific case studies drawn from the USA, Canada, Europe and Australia or focussing on specific

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issues. The book is unique in addressing this subject and will interest readers in agricultural business and economics, veterinary science and the livestock sector.

Animal Influenza

Johne's Disease is a chronic, progressive intestinal disease caused by infection with *Mycobacterium avium* subspecies *paratuberculosis* (Map) that affects primarily ruminant animals. In recent decades there has been growing concern over the lack of effective control of this disease and questions have arisen regarding the possibility that Map infection could be a cause of some cases of Crohn's disease in humans. This report presents a broad outline of the steps that should be taken to control Johne's disease, reduce the spread of Map, and minimize effects of the disease in animals. The report also describes the weaknesses of our current research agenda and provides recommendations for a new research strategy to resolve the question of whether there is a link between Johne's and Crohn's diseases.

Animal Health Economics

Animal Influenza, Second Edition is a comprehensive text on animal influenza. Organized by species, coverage includes avian, swine, equine and mammals, with each section including data on influenza viruses, the infection and disease they cause, and strategies used in control. Covers the full range of topics within avian, swine, equine and

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mammalian influenzas in one comprehensive and authoritative text Provides a summarization of peer-reviewed and empirical data on influenza viruses, the infection, and diseases they cause Discusses strategies used in control of the disease Leading experts are drawn together to provide an international and multi-disciplinary perspective Fuses latest developments in basic scientific research with practical guidance on management of the disease

Workforce Needs in Veterinary Medicine

This highly readable book is aimed at anyone with an interest in the food they eat. In conversational tone, and avoiding academic jargon, it provides an honest and objective account of the consequences of food consumption choices and policies, through the lens of economics.

Plant-Based Diets for Succulence and Sustainability

In this “provocative and persuasive work,” the health advocate reveals the dirty economics of meat—an industry that’s eating into your wallet (Publishers Weekly). Few Americans are aware of the economic system that supports our country’s supply of animal foods. Yet these forces affect us in a number of ways—none of them good. Though we only pay a few dollars per pound of meat at the grocery store, we pay far more in tax-fueled government subsidies—\$38 billion more, to be exact. And subsidies are just one layer of meat’s hidden cost. But in *Meatonomics*,

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lawyer and sustainability advocate David Robinson Simon offers a path toward lasting solutions. Animal food producers maintain market dominance with artificially low prices, misleading PR, and an outsized influence over legislation. But counteracting these manipulations is easy—with the economic sanity of plant-based foods. In *Meatonomics*, Simon demonstrates: How government-funded marketing influences what we think of as healthy eating How much of our money is spent to prop up the meat industry How we can change our habits and our country for the better “Spectacularly important.” —John Robbins, author of *The Food Revolution* “[A] well-researched, passionately written book.” —Publishers Weekly

Animal Health Economics

Succinct, highly readable and thought provoking, this important new text is designed to raise awareness of the potential economic impact of companion animals in the UK. It discusses the potential benefits and costs of companion animals to the economy and highlights the need for this matter to be thoroughly researched, given the potential scale of impact and the potential costs of ignoring this matter. Inspired by the seminal Council for Science and Society (CSS) Report, *Companion Animals in Society* (1988), this work updates and extends its evaluation of the economic impact of companion animals on society and lays a benchmark for future development. This pivotal new book is important for policy makers at national and international levels and all those involved in animal

welfare.

Diagnosis and Control of Johne's Disease

The U.S. veterinary medical profession contributes to society in diverse ways, from developing drugs and protecting the food supply to treating companion animals and investigating animal diseases in the wild. In a study of the issues related to the veterinary medical workforce, including demographics, workforce supply, trends affecting job availability, and capacity of the educational system to fill future demands, a National Research Council committee found that the profession faces important challenges in maintaining the economic sustainability of veterinary practice and education, building its scholarly foundations, and evolving veterinary service to meet changing societal needs. Many concerns about the profession came into focus following the outbreak of West Nile fever in 1999, and the subsequent outbreaks of SARS, monkeypox, bovine spongiform encephalopathy, highly pathogenic avian influenza, H1N1 influenza, and a variety of food safety and environmental issues heightened public concerns. They also raised further questions about the directions of veterinary medicine and the capacity of public health service the profession provides both in the United States and abroad. To address some of the problems facing the veterinary profession, greater public and private support for education and research in veterinary medicine is needed. The public, policymakers, and even medical professionals are frequently unaware of how veterinary medicine

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fundamentally supports both animal and human health and well-being. This report seeks to broaden the public's understanding and attempts to anticipate some of the needs and measures that are essential for the profession to fulfill given its changing roles in the 21st century.

Animal Welfare

Zoonotic diseases - pathogens transmitted from animals to people - offer particularly challenging problems for global health institutions and actors, given the complex social-ecological dynamics at play. New forms of risk caused by unprecedented global connectivity and rapid social and environmental change demand new approaches. 'One Health' highlights the need for collaboration across sectors and disciplines to tackle zoonotic diseases. However, there has been little exploration of how social, political and economic contexts influence efforts to 'do' One Health. This book fills this gap by offering a much needed political economy analysis of zoonosis research and policy. Through ethnographic, qualitative and quantitative data, the book draws together a diverse number of case studies. These include chapters exploring global narratives about One Health operationalization and prevailing institutional bottlenecks; the evolution of research networks over time; and the histories and politics behind conflicting disease control approaches. The themes from these chapters are further contextualized and expanded upon through country-specific case studies - from Kenya, Zambia, Nigeria,

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Ghana and Sierra Leone – exploring the translation of One Health research and policy into the African context. This book is a valuable resource for academic researchers, students and policy practitioners in the areas of global health, agriculture and development.

The Economics of Animal Health and Production

Greenhouse gas emissions by the livestock sector could be cut by as much as 30 percent through the wider use of existing best practices and technologies. FAO conducted a detailed analysis of GHG emissions at multiple stages of various livestock supply chains, including the production and transport of animal feed, on-farm energy use, emissions from animal digestion and manure decay, as well as the post-slaughter transport, refrigeration and packaging of animal products. This report represents the most comprehensive estimate made to-date of livestock's contribution to global warming as well as the sector's potential to help tackle the problem. This publication is aimed at professionals in food and agriculture as well as policy makers.

The Regulation of Animal Health and Welfare

The very mention of Afghanistan conjures images of war, international power politics, the opium trade, and widespread corruption. Yet the untold story of Afghanistan's seemingly endless misfortune is the disruptive impact that prolonged conflict has had on

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ordinary rural Afghans, their culture, and the timeless relationship they share with their land and animals. In rural Afghanistan, when animals die, livelihoods are lost, families and communities suffer, and people may perish. That Sheep May Safely Graze details a determined effort, in the midst of war, to bring essential veterinary services to an agrarian society that depends day in and day out on the well-being and productivity of its animals, but which, because of decades of war and the disintegration of civil society, had no reliable access to even the most basic animal health care. The book describes how, in the face of many obstacles, a dedicated group of Afghan and expatriate veterinarians working for a small nongovernmental organization (NGO) in Kabul was able to create a national network of over 400 veterinary field units staffed by over 600 veterinary paraprofessionals. These paravets were selected by their own communities and then trained and outfitted by the NGO so that nearly every district in the country that needed basic veterinary services now has reliable access to such services. Most notably, over a decade after its inception and with Afghanistan still in free fall, this private sector, district-based animal health program remains vitally active. The community-based veterinary paraprofessionals continue to provide quality services to farmers and herders, protecting their animals from the ravages of disease and improving their livelihoods, despite the political upheavals and instability that continue to plague the country. The elements contributing to this sustainability and their application to programs for improved veterinary service delivery in developing countries beyond Afghanistan are described in the

narrative.

Critical Role of Animal Science Research in Food Security and Sustainability

By 2050 the world's population is projected to grow by one-third, reaching between 9 and 10 billion. With globalization and expected growth in global affluence, a substantial increase in per capita meat, dairy, and fish consumption is also anticipated. The demand for calories from animal products will nearly double, highlighting the critical importance of the world's animal agriculture system. Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production. Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security. Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development, technology, and resource needs for research in the field of animal agriculture, both nationally and internationally. This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security; evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems; and identifies factors that may impact the ability of the United States to meet demand for animal products, including the need for trained human capital, product safety and quality,

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and effective communication and adoption of new knowledge, information, and technologies. The agricultural sector worldwide faces numerous daunting challenges that will require innovations, new technologies, and new ways of approaching agriculture if the food, feed, and fiber needs of the global population are to be met. The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century.

The Welfare of Cattle

Considering individual animals and herds as economic units makes health an economic consideration. Animal health economics is principally concerned with the economic decision making behind controlling animal diseases, from individual animals and local herds to the national herd and international disease control efforts. Climate change, the spread of exotic diseases, changes in national policies and the emergence of new diseases all impact upon animal health. This book discusses the tools and analysis behind measuring and evaluating animal health at various levels.

Companion Animal Economics

The Regulation of Animal Health and Welfare draws on the research of scientists, lawyers, economists and political scientists to address the current and future

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regulatory problems posed by the issues of animal health and disease. Recent events such as the outbreak of mad cow disease, epidemics of foot and mouth disease, concerns about bluetongue in sheep, and the entry into the food chain of the offspring of cloned cattle, have heightened awareness of the issues of regulation in animal disease and welfare. This book critically appraises the existing regulatory institutions and guiding principles of how best to maintain animal health in the context of social change and a developing global economy. Addressing considerations of sound science, the role of risk management, and the allocation of responsibilities, it also takes up the theoretical and practical challenges which here - and elsewhere - attend the co-operation of scientists, social scientists, lawyers and policy makers. Indeed, the collaboration of scientists and social scientists in determined and regulatory contexts such as that of animal disease is an issue of ever-increasing importance. This book will be of considerable value to those with interests in this issue, as well as those concerned with the law and policy relating to animal health and welfare.

OECD Study on the World Organisation for Animal Health (OIE) Observatory Strengthening the Implementation of International Standards

The welfare of animals continues to increase in recognition and concern throughout the world, with more and more research in the field offering new insights into optimal conditions and treatment for the

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animals we live and work with. Human welfare is often linked to animal welfare, as in many regions a secure food supply depends upon healthy and productive animals. Providing a broad introduction to the key topics in the welfare of animals both large and small, farm and companion, wild and zoo, this fully updated textbook covers ethics, animal pain and injury, health and disease, social conditions, and welfare issues and problems. Critically, it also offers practical advice for welfare assessment, with a full concluding section dedicated to the implementation of solutions. With contributions from renowned international experts, *Animal Welfare, 2nd Edition* is an essential resource for students and researchers in animal and veterinary sciences.

Meatonomics

One Health is an emerging concept that aims to bring together human, animal, and environmental health. Achieving harmonized approaches for disease detection and prevention is difficult because traditional boundaries of medical and veterinary practice must be crossed. In the 19th and early 20th centuries this was not the case—then researchers like Louis Pasteur and Robert Koch and physicians like William Osler and Rudolph Virchow crossed the boundaries between animal and human health. More recently Calvin Schwabe revised the concept of One Medicine. This was critical for the advancement of the field of epidemiology, especially as applied to zoonotic diseases. The future of One Health is at a crossroads with a need to more clearly define its

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boundaries and demonstrate its benefits. Interestingly the greatest acceptance of One Health is seen in the developing world where it is having significant impacts on control of infectious diseases.

Proceedings of the Inaugural ISESSAH Conference

This book provides an overview of the state of animal agriculture and present methodologies and proposals to develop policies that result in sustainable and profitable animal production that will protect human and environmental health, enhance livelihood of smallholders and meet consumer needs. The book combines lessons of the past, factual foundation to understand the present, analytical tools to design and improve policies, case studies that provide both empirical grounding and applications of some of the strategies suggested in this book, and finally, a proposal for the way forward.

Ruminants

This landmark new text charts the latest developments in economic research relevant to farm animal welfare. A range of global experts and key opinion leaders outline the challenges in achieving sustainable livestock production while improving farm profit, climate change and animal welfare, and make policy-relevant recommendations for the future. This is a theoretical yet practical book that examines: - the origins of farm animal welfare, cross-disciplinary interactions and the future of the field; - consumer

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demand and changing preferences as animal welfare rises up the social agenda; - the impact political organisations such as the EU and WTO have on animal welfare. An important resource for policy makers and animal welfare scientists, economists and clinicians, this book provides a thought-provoking yet evidence-based review for all those interested in quantifying and improving farm animal welfare.

Economic Analysis of Animal Diseases

This OECD study provides a diagnostic of the current state of play of OIE standards and of the data collection mechanisms that are (or may be) used to gather information on how they are implemented domestically. Based on this diagnostic, the OECD provides recommendations to support the OIE in establishing an Observatory to enhance the use and effectiveness of its standards.

The Economics of Health and Medical Care

Health Economics introduces students of economics, public health, and medicine to the modern field of health economics. The book emphasizes the link between economic theory and health policy, and covers both the established models of health insurance and the dilemmas that policy makers currently face. Features include: * Broad scope, featuring comparative health policy and empirical examples from around the world * Topical issues such as the obesity epidemic, economic epidemiology,

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socioeconomic health disparities, and behavioral economics * The latest research including the Oregon Medicaid Experiment and the potential impacts of US health reform Student-friendly, Health Economics is written in an engaging, lively style, enhanced by cartoons and images that relate the principles of health economics to everyday life. It also offers hundreds of exercises to help solidify and extend understanding.

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