

Selection for Fertility in Dairy Cattle

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Fertility Management In Dairy Cattle

Michael Thrusfield



Fertility Management In Dairy Cattle:

Fertility Management in Dairy Cattle Richard J. Esslemont, J. H. Bailie, M. J. Cooper, 1985 *Dairy Cattle Fertility & Sterility*, 1996 *Advances in breeding of dairy cattle* Prof. Julius van der Werf, Prof. Jennie E. Pryce, 2019-12-24 Particular focus on the challenges in breeding and lack of genetic diversity in modern dairy cattle Explores ways of improving non production traits in cattle for more sustainable production Detailed review of key developments in reproductive technologies and breeding programmes to further advance dairy cattle breeding **Care, Feed and Management of the Dairy Herd** Henry Herbert Kildee, 1914 **Bovine Medicine** Anthony H. Andrews, Roger W. Blowey, Hugh Boyd, Roger G. Eddy, 2008-04-15 Bovine Medicine provides practical and comprehensive information on cattle disease and production and is a key reference for all large animal vets Since the first edition was published in 1991 there have been significant improvements in disease control and management of cattle Almost all parts of the book have been updated and completely rewritten There are new chapters on surgery embryo transfer artificial insemination ethno veterinary medicine and biosecurity and a new consolidating chapter on the interaction between the animal environment management and disease The previous edition has sold all over the world and as a result of this a greater emphasis has been placed on conditions and their treatment in areas other than temperate regions A new section entitled Global Variation in Cattle Practice has been included with contributors discussing bovine medicine practice in their part of the world All in all this is an outstanding resource for any practising vet and an excellent reference for veterinary students **Dairy Cattle Feeding and Management**, 1917

A Study of the Organization and Management of Dairy Farms in Northeastern Iowa Albert Thomas Mighell, 1927

Instant Insights: Infertility and other reproductive disorders in dairy cattle Alexander C. O. Evans, Shenming Zeng, Dr Michael Iwersen, Dr Marc Drillich, Dr Mekonnen Haile-Mariam, Prof. Jennie E. Pryce, Emeritus Prof Norman B. Williamson, 2022-08-30 This collection features four peer reviewed reviews on infertility and other reproductive disorders in dairy cattle The first chapter discusses the physiology of the main impediments to fertility and management issues that need to be addressed to ensure good fertility of dairy cows The chapter focusses on parturition and uterine health the importance of the post partum environment and the role of oestrus as well as methods of establishing pregnancy and the effect of heat stress on cows fertility The second chapter considers recent developments in automated monitoring of livestock fertility and pregnancy focussing on its implementation in dairy cattle production The chapter explores the physiological basics of the reproductive cycle in dairy cattle and the use of artificial intelligence to monitor and report changes in animal behaviour The third chapter reviews progress in understanding the role of genetics in addressing the decline in fertility rates in dairy cattle The chapter discusses strategies to improve the reproductive performance of dairy cattle including the use of different breeds measures of fertility and genomic data The final chapter reviews best practices to detect reproductive problems and limitations in dairy cattle The chapter identifies key areas which are known to limit performance and provides strategies

which can be implemented to optimise reproductive performance and maximise animal health

Dairy Cattle Feeding and Management Carl William Larson, Fred Silver Putney, 1917

Management and Welfare of Farm Animals John Webster, 2011-04-18

Through successive editions *Management and Welfare of Farm Animals* has gained international recognition as a classic introductory textbook for students of agriculture and veterinary science. Conceived by the Universities Federation for Animal Welfare (UFAW), the book has always sought to promote the humane treatment of livestock within the practical business context of modern farming. Now fully revised and updated, this fifth edition remains the most comprehensive and accessible guide available. Three animal groups appear here for the first time: game birds, South American camelids and ostriches, and a chapter on horses has also been restored. Throughout the book offers clear advice for the humane management of all major farmed species in the primary context of large scale food production. However, this edition also takes full account of consumer demand and legal requirements for alternative farming methods and enhanced welfare standards, whether in conventional agriculture or the smallest of hobby farms. Brand new chapters reflect fresh understanding of welfare science, ethics and the role of society in ensuring the best possible farm conditions. It remains an indispensable resource for students and for all those seeking to promote animal welfare. Published as a part of the prestigious Wiley Blackwell UFAW Animal Welfare series. UFAW founded 1926 is an internationally recognised independent scientific and educational animal welfare charity. For full details of all titles available in the UFAW series, please visit www.wiley.com/go/uaw.

Bovine Reproduction Richard M. Hopper, 2014-08-18

Bovine Reproduction is a comprehensive current reference providing information on all aspects of reproduction in the bull and cow. Offering fundamental knowledge on evaluating and restoring fertility in the bovine patient, the book also places information in the context of herd health where appropriate for a truly global view of bovine theriogenology. Printed in full color throughout, the book includes 83 chapters and more than 550 images, making it the most exhaustive reference available on this topic. Each section covers anatomy and physiology, breeding management and reproductive surgery, as well as obstetrics and pregnancy wastage in the cow. *Bovine Reproduction* is a welcome resource for bovine practitioners, theriogenologists and animal scientists, as well as veterinary students and residents with an interest in the cow.

Performance recording of animals - State of the art, 2002 J. Crettenand, J. Moll, C. Mosconi, S. Wegmann, 2023-08-28

This publication collects the Proceedings of the 33rd Biennial Session of the International Committee for Animal Recording (ICAR) held in Interlaken, Switzerland, on 26-31 May 2002. Around 400 participants from 60 countries took part in the ICAR Session or attended the Interbull Meeting. The activities were divided into five parallel technical sessions. Overall, about 40 technical papers and reports were presented during the sessions. A technical session was especially reserved for the presentation of the activities of the Task Forces, Sub Committees and Working Groups, in which a total of 19 reports were presented. The issues that were discussed covered the use of new technologies for animal performance recording, the application of national animal tracing databases, the use of data from

permanent milk recording for official performance recording the performance recording of beef traits and possible alternative systems of recording of functional traits Particularly relevant was also the involvement of representatives of non member organizations especially from Central and Eastern Europe and developing countries whose needs demonstrate the possibilities that are offered to ICAR to help the re organization of the animal sector This supporting activity with those finalized to reach a better comparison of the production systems among the member organization demonstrate the potentialities of the association The Sessions allowed an active exchange of ideas and experiences among the participants who recognized that the dialogue is the engine for improvement Considering that the resources of most member organizations have been reduced the need of working together was strongly underlined today more than in the past in order to achieve shared objectives

Reproductive Technologies in Farm Animals Ian Gordon,2004 In the past half century great progress has been made in the reproductive management of farm animals both mammals and birds This book aims to review developments and indicate which reproductive technologies can be used commercially or in research It begins by discussing artificial insemination and how this has recently been refined in semen sexing technology Embryo transfer in vitro embryo production technology and the control of oestrus and ovulation are then reviewed Subsequent chapters consider the control of postpartum ovarian activity seasonal breeding multiple births and litter size pregnancy testing parturition and the onset of puberty The author then describes more recent developments in cloning and the production of transgenic animals before a final chapter on suppressing reproductive activity

Management of Bulls, An Issue of Veterinary Clinics of North America: Food Animal Practice, E-Book Lee Jones,Joseph C. Dalton,2024-01-29 In this issue of Veterinary Clinics of North America Food Animal Practice guest editors Drs Lee Jones and Joseph C Dalton bring their considerable expertise to the topic of Management of Bulls Top experts in the field offer current discussions of assessing the reproductive potential of bulls diagnosing disease or causes of infertility and determining appropriate course of treatment or prognosis for recovery of injured bulls This issue also provides up to date information regarding the contribution of sires to success or failure of reproductive programs in beef and dairy herds and foundational material for success with AI semen storage handling and site of deposition Contains 13 relevant practice oriented topics including semen quality and field fertility beef and dairy physical evaluation of the breeding bull nutrition and development medical and surgical management of conditions of the penis and prepuce management of lameness in breeding bulls genomics and bull fertility and more Provides in depth clinical reviews on management of bulls offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

Veterinary Epidemiology Michael Thrusfield,2018-02-15 A comprehensive introduction to the role of epidemiology in veterinary medicine This fully revised and expanded edition of Veterinary Epidemiology introduces readers to the field of veterinary epidemiology The new edition also adds new chapters

on the design of observational studies validity in epidemiological studies systematic reviews and statistical modelling to deliver more advanced material This updated edition begins by offering an historical perspective on the development of veterinary medicine It then addresses the full scope of epidemiology with chapters covering causality disease occurrence determinants disease patterns disease ecology and much more Veterinary Epidemiology Fourth Edition Features updates of all chapters to provide a current resource on the subject of veterinary epidemiology Presents new chapters essential to the continued advancement of the field Includes examples from companion animal livestock and avian medicine as well as aquatic animal diseases Focuses on the principles and concepts of epidemiology surveillance and diagnostic test validation and performance Includes access to a companion website providing multiple choice questions Veterinary Epidemiology is an invaluable reference for veterinary general practitioners government veterinarians agricultural economists and members of other disciplines interested in animal disease It is also essential reading for epidemiology students at both the undergraduate and postgraduate levels

Genomically Enhanced Predictions of Dairy Cattle Fertility Emily Marie Sitko, 2022

Research presented in this thesis aimed at improving the efficiency of dairy farms through the development of targeted reproductive management strategies TRM based on genomically enhanced predictions of fertility and the elucidation of associations between genetic merit for fertility and biological outcomes that affect dairy cow reproductive performance Chapter II and III present the results of an experiment designed to compare the association between genetic merit for fertility and reproductive and profitability outcomes of cows submitted for artificial insemination AI with management programs that prioritized AI at detected estrus AIE or timed AI TAI Another objective was to determine if cows with different genetic potential for fertility would present a distinct response to the strategies compared The study presented in Chapter IV and V characterized associations between genetic merit for fertility and biological parameters known to alter reproductive performance of cows Results presented in Chapter II and III indicated that primiparous Holstein cows of superior genetic merit for fertility had better reproductive performance than cows of inferior genetic merit for fertility regardless of the type of reproductive management used In addition the effect of TRM based on genetic merit for fertility on reproductive performance depended on the outcome or sets of outcomes of interest evaluated For example cows of superior and intermediate genetic merit for fertility had greater P AI when managed with the predominant TAI program but reduced days to pregnancy when managed with the program that prioritized AIE Cows of inferior fertility also had greater first service P AI with the program that prioritized TAI but had similar days to pregnancy with both management strategies From an economic standpoint cows of inferior fertility had greater cash flow than cows of superior fertility For cows in specific fertility groups the effects of the reproductive management strategies compared generated differences in cash flow of potential value for commercial dairy farms The study presented in Chapter IV and V demonstrated a potential association of genomic merit for fertility with physiological and endocrine parameters known to affect reproductive performance of dairy cows Particularly

cows of inferior genetic merit for fertility had poorer uterine health decreased response to synchronization of estrus and ovulation and were more likely to present altered ovarian and hormonal phenotypes that led to more frequent expression of atypical estrous cycles as compared with cows of superior genetic merit for fertility Overall we observed that genetically enhanced predictions of fertility might be a suitable tool for decision making in TRM Additionally the value of TRM programs for cows of different genetic merit for fertility might be on improving aspects of herd management such as simplifying program implementation or reducing reliance on hormonal interventions while maintaining acceptable levels of reproductive performance An improved understanding of biological differences associated with genetic variation such as our observations in Chapter IV and V may be beneficial for the development of novel TRM and technologies to improve the reproductive efficiency of dairy cattle This novel information could also support the development of new traits for selection of fertility

Improving Health and Welfare in Animal Production Harry J Blokhuis,E Dinand Ekkel,Beat Wechsler,2000-08-15

Health and welfare of domestic animals is a prominent issue in society and in all public discussions about animal production The public is concerned about the health and welfare of production animals the lack of individual control the large group sizes and high technology input As a response governments have been integrating animal welfare requirements use of medication and product safety in national and international regulations Parallel to this more and more producers of animal products claim to meet specific health and welfare standards and these products are marketed as safe with respect to human health or as being produced in an animal friendly way As a consequence of these developments there is an increasing need for methods to measure and monitor health and welfare to control the quality of production ISO HACCP and to certificate farms that comply with health and or welfare requirements of their customers This need is not only related to existing housing systems both governments and society demand insight into the health and welfare aspects of new alternative housing systems preceding the introduction in practice This publication presents a selection of the oral presentations in the Management of Health and Welfare and the Alternative housing systems for pigs and laying hens sessions of the EAAP meeting in The Hague which give a broad overview of the different perspectives on how management and certification systems as well as new housing systems can contribute to animal husbandry methods which are accepted by both society and consumers

Improving dairy herd health Professor Emeritus Emile Bouchard,2021-07-20 Particular focus on prerequisites required for effective herd health management HHM programmes including understanding bovine disease epidemiology improving disease surveillance including the use of sensors data driven decision making based on cow health records as well as advances in understanding and optimising immune response Reviews HHM issues across the dairy cow life cycle from reproduction and calf health to the transition stage and replacement of stock Shows how HHM programmes can work in practice for particular conditions from udder and hoof health to preventing metabolic disorders bacterial and viral diseases as well as parasitic infections

Advances in precision livestock farming Professor Daniel

Berckmans,2022-06-28 Provides a comprehensive review of the recent developments in precision livestock technologies from wearable sensors to thermal imaging techniques Covers the latest research on the application of precision livestock technologies in monitoring livestock health Highlights the potential of precision livestock technologies to reduce the environmental impact of livestock production Improving Cattle for Milk, Meat and Traction Ibrahim, H.,2000-01-01

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