

NUTRIENT REQUIREMENTS OF HORSES

SIXTH REVISED EDITION

ANIMAL NUTRITION SERIES

NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES

Nutrient Requirements Of Horses Sixth Revised Edition **Animal Nutrition Series**

**National Research Council, Division on
Earth and Life Studies, Board on
Agriculture and Natural
Resources, Committee on a Study of
Technologies to Benefit Farmers in
Africa and South Asia**

Nutrient Requirements Of Horses Sixth Revised Edition Animal Nutrition Series:

Nutrient Requirements of Horses National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Nutrient Requirements of Horses, 2007-04-13 Proper formulation of diets for horses depends on adequate knowledge of their nutrient requirements. These requirements depend on the breed and age of the horse and whether it is exercising, pregnant or lactating. A great deal of new information has been accumulated since the publication 17 years ago of the last edition of *Nutrient Requirements of Horses*. This new edition features a detailed review of scientific literature summarizing all the latest information and provides a new set of requirements based on revised data. Also included is updated information on the composition of feeds, feed additives and other compounds routinely fed to horses. The effects of physiological factors such as exercise and environmental factors such as temperature and humidity are covered as well. *Nutrient Requirements of Horses* also contains information on several nutritional and metabolic diseases that horses often have. Designed primarily as a reference, both practical and technical, *Nutrient Requirements of Horses* is intended to ensure that the diets of horses and other equids contain adequate amounts of nutrients and that the intakes of certain nutrients are not so excessive that they inhibit performance or impair health. This book is primarily intended for animal nutritionists, veterinarians and other scientists; however, individual horse owners and managers will also find some of this material useful. Professors who teach graduate courses in animal nutrition will find *Nutrient Requirements of Horses* beneficial as a textbook.

Nutrient Requirements of Horses National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Nutrient Requirements of Horses, 2007-03-13 Proper formulation of diets for horses depends on adequate knowledge of their nutrient requirements. These requirements depend on the breed and age of the horse and whether it is exercising, pregnant or lactating. A great deal of new information has been accumulated since the publication 17 years ago of the last edition of *Nutrient Requirements of Horses*. This new edition features a detailed review of scientific literature summarizing all the latest information and provides a new set of requirements based on revised data. Also included is updated information on the composition of feeds, feed additives and other compounds routinely fed to horses. The effects of physiological factors such as exercise and environmental factors such as temperature and humidity are covered as well. *Nutrient Requirements of Horses* also contains information on several nutritional and metabolic diseases that horses often have. Designed primarily as a reference, both practical and technical, *Nutrient Requirements of Horses* is intended to ensure that the diets of horses and other equids contain adequate amounts of nutrients and that the intakes of certain nutrients are not so excessive that they inhibit performance or impair health. This book is primarily intended for animal nutritionists, veterinarians and other scientists; however, individual horse owners and managers will also find some of this material useful. Professors who teach graduate courses in animal nutrition will find *Nutrient Requirements of Horses* beneficial as a textbook.

Nutrient Requirements of Swine National Research

Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Nutrient Requirements of Swine, 2012-08-02 Since 1944 the National Research Council has published 10 editions of the Nutrient Requirements of Swine This reference has guided nutritionists and other professionals in academia and the swine and feed industries in developing and implementing nutritional and feeding programs for swine The swine industry has undergone considerable changes since the tenth edition was published in 1998 and some of the requirements and recommendations set forth at that time are no longer relevant or appropriate The eleventh revised edition of the Nutrient Requirements of Swine builds on the previous editions published by the National Research Council A great deal of new research has been published during the last 15 years and there is a large amount of new information for many nutrients In addition to a thorough and current evaluation of the literature on the energy and nutrient requirements of swine in all stages of life this volume includes information about feed ingredients from the biofuels industry and other new ingredients requirements for digestible phosphorus and concentrations of it in feed ingredients a review of the effects of feed additives and feed processing and strategies to increase nutrient retention and thus reduce fecal and urinary excretions that could contribute to environmental pollution The tables of feed ingredient composition are significantly updated Nutrient Requirements of Swine represents a comprehensive review of the most recent information available on swine nutrition and ingredient composition that will allow efficient profitable and environmentally conscious swine production Nutrient Requirements of Fish and Shrimp National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on the Nutrient Requirements of Fish and Shrimp, 2011-05-25 Aquaculture now supplies half of the seafood and fisheries products consumed worldwide and is gaining international significance as a source of food and income Future demands for seafood and fisheries products can only be met by expanded aquaculture production Such production will likely become more intensive and will depend increasingly on nutritious and efficient aquaculture feeds containing ingredients from sustainable sources To meet this challenge Nutrient Requirements of Fish and Shrimp provides a comprehensive summary of current knowledge about nutrient requirements of fish and shrimp and supporting nutritional science This edition incorporates new material and significant updates to information in the 1993 edition It also examines the practical aspects of feeding of fish and shrimp Nutrient Requirements of Fish and Shrimp will be a key resource for everyone involved in aquaculture and for others responsible for the feeding and care of fish and shrimp It will also aid scientists in developing new and improved approaches to satisfy the demands of the growing aquaculture industry **Nutrient Requirements of Nonhuman Primates** National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Ad Hoc Committee on Nonhuman Primate Nutrition, Committee on Animal Nutrition, 2003-02-01 This new release presents the wealth of information gleaned about nonhuman primates nutrition since the previous edition was published in 1978 With expanded coverage of natural dietary habits gastrointestinal anatomy and physiology and the nutrient needs of species that have been difficult to

maintain in captivity it explores the impact on nutrition of physiological and life stage considerations infancy weaning immune function obesity aging and more The committee also discusses issues of environmental enrichment such as opportunities for foraging Based on the world s scientific literature and input from authoritative sources the book provides best estimates of nutrient requirements The volume covers requirements for energy carbohydrates including the role of dietary fiber proteins and amino acids fats and fatty acids minerals fat soluble and water soluble vitamins and water The book also analyzes the composition of important foods and feed ingredients and offers guidelines on feed processing and diet formulation

Nutrition of the exercising horse M. Saastamoinen,W. Martin-Rosset,2023-08-28 The exercising horse competes at various levels in different disciplines and is also increasingly used for leisure riding and driving as well as hobby farming and agritourism This varied use of the horse of today creates challenges for those who are responsible for the feeding of horses as well as to feed producers and manufacturers This book provides an outstanding synthesis of knowledge in physiology and metabolism nutritional requirements and feeding strategies Use of performance aids and the question of feed contaminants and doping are explained and discussed according to EU legislation on the marketing and use of animal feeds and doping rules in horse sports The improved knowledge and understanding of the background of the horse s performance and nutritional physiology helps to meet the nutritional requirements of working or exercising horses such that their genetic potential can be used properly This book discusses the following seven subjects nutrients and tissue metabolism adaptations energy requirements protein requirements mineral electrolytes and vitamin requirements and function feeding strategies performance aids and feed contaminants and doping This book is the fourth step of further discussion on the evaluation and prediction of the requirements of different types of horses covered in the scope of the working group Nutrition of the Horse commission at European Association of Animal Production EAAP All of those concerned with racing riding and feeding in the equine industry will enjoy this valuable resource It is a reference book for scientists veterinarians advisers and practioneers in the equine industry as well as for teachers and students in equine science

Handbook of Nutrition and Food Carolyn D. Berdanier,2001-10-30 With a clear and concise format Handbook of Nutrition and Food presents the quantitative and qualitative data and information needed by nutritionists dieticians and health care professionals It proceeds from human development to body systems and disease to micro macro nutrients and concludes with nutrition counseling and community nutrition See *New and Forthcoming Books* National Academy Press (U.S.),2000

Nutrient Requirements of Laboratory Animals, National Research Council,Board on Agriculture,Committee on Animal Nutrition,Subcommittee on Laboratory Animal Nutrition,1995-02-01 In the years since the third edition of this indispensable reference was published a great deal has been learned about the nutritional requirements of common laboratory species rat mouse guinea pig hamster gerbil and vole The Fourth Revised Edition presents the current expert understanding of the lipid carbohydrate protein mineral vitamin and other nutritional needs of these animals The extensive use of tables provides easy

access to a wealth of comprehensive data and resource information The volume also provides an expanded background discussion of general dietary considerations In addition to a more user friendly organization new features in this edition include A significantly expanded section on dietary requirements for rats reporting substantial new findings A new section on nutrients that are not required but that may produce beneficial results New information on growth and reproductive performance among the most commonly used strains of rats and mice and on several hamster species An expanded discussion of diet formulation and preparation including sample diets of both purified and natural ingredients New information on mineral deficiency and toxicity including warning signs This authoritative resource will be important to researchers laboratory technicians and manufacturers of laboratory animal feed *Range and Animal Sciences and Resources Management - Volume II* Victor R. Squires,2010-07-07 Range and Animal Sciences and Resources Management is a component of Encyclopedia of Food and Agricultural Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Rangelands comprise over forty percent of the earth s land surface and as one of the most prevalent land systems on the planet rangelands are critical habitats for myriad plant and animal species and form many of the world s major watersheds Rangelands are categorized in two distinct ways a as a type of land or b a type of land use This theme with contributions from distinguished experts in the field discusses about Range and Animal Sciences and Resources Management in several related topics These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs Emerging Technologies to Benefit Farmers in Sub-Saharan Africa and South Asia National Research Council,Division on Earth and Life Studies,Board on Agriculture and Natural Resources,Committee on a Study of Technologies to Benefit Farmers in Africa and South Asia,2009-02-21 Increased agricultural productivity is a major stepping stone on the path out of poverty in sub Saharan Africa and South Asia but farmers there face tremendous challenges improving production Poor soil inefficient water use and a lack of access to plant breeding resources nutritious animal feed high quality seed and fuel and electricity combined with some of the most extreme environmental conditions on Earth have made yields in crop and animal production far lower in these regions than world averages Emerging Technologies to Benefit Farmers in Sub Saharan Africa and South Asia identifies sixty emerging technologies with the potential to significantly improve agricultural productivity in sub Saharan Africa and South Asia Eighteen technologies are recommended for immediate development or further exploration Scientists from all backgrounds have an opportunity to become involved in bringing these and other technologies to fruition The opportunities suggested in this book offer new approaches that can synergize with each other and with many other activities to transform agriculture in sub Saharan Africa and South Asia *Large Animal Internal Medicine - E-Book* Bradford P. Smith,Nicola Pusterla,2019-05-21 Selected for Doody s Core Titles 2024 with Essential Purchase designation in Veterinary

Medicine Utilize a problem oriented approach to the diagnosis of diseases of horses cattle sheep and goats Large Animal Internal Medicine 6th Edition covers the diagnosis and management of disease in both ruminant and equine internal medicine As the first veterinary internal medicine text to use a problem based approach it offers discussions of over 150 clinical signs and manifestations as well as comprehensive coverage of laboratory and diagnostic testing New to this edition is a versatile online reference platform and coverage of conditions that exist in Europe Central and South America Australia and New Zealand In addition thoroughly revised and updated content includes new vaccines and vaccination protocols the most current laboratories for DNA genetic and PCR testing and colostrum supplements and replacers It s everything you need to stay up to date with the latest information on preventing and treating disease in large animals Discussions of over 150 clinical signs or manifestations of disease provide you with a problem based approach to diagnosis based on what you ve observed and what laboratory tests reveal Causes of Presenting Signs boxes offer quick access to the common less common and uncommon diseases associated with manifestations or signs of disease Causes of Abnormal Laboratory Values boxes highlight the possible interpretations of abnormalities in clinical chemistry hematology blood proteins and clotting tests More than 200 expert authors contribute information in their areas of expertise for the most current authoritative information on each topic NEW Expert Consult platform provides a versatile digital resource including bonus content useful references and videos to meet the needs of practicing equine and large animal veterinarians NEW Global conditions of importance are covered including those previously not discussed that exist in Europe Central and South America Australia and New Zealand NEW Coverage of emerging and re emerging diseases includes the new pathogen discovery NEW Assessment of vaccination status and susceptibility to infection discusses how antibody titers can predict protection for some pathogens NEW Description of epigenetics and metagenomics provides detailed coverage of these emerging areas of interest NEW Table of zoonoses obtained from large animals includes symptoms and disinfection needs NEW Videos demonstrate how to perform ultrasound imaging on an equine and cow abdomen clearly showing where to position the probe and what depth to use for scans of the kidneys liver and bowel NEW Coverage of genetic disorders Hydrocephalus in Fresians and Pulmonary hypoplasia with Anasarca in Dexter cattle help you to treat these disorders NEW Extensively updated content clarifies the latest research and clinical findings on the West Nile Virus therapeutic drug monitoring muscle disorders GI microbiota the genetic basis for Immune mediated myositis in Quarter Horses discoveries in antimicrobial drugs anthelmintic and vaccines and more [National Academy Press ... Publications Catalog](#) ,1985 [Nutrient Requirements of Swine](#) Subcommittee on Swine Nutrition,Committee on Animal Nutrition,National Research Council,1998-04-03 The tenth edition of this essential reference presents new knowledge about the nutritional needs of swine that consider such factors as growth rate carcass leanness gender health environment and repartitioning agents New sections are presented on requirements for amino acids and other nutrients In addition an original modeling approach to arriving at energy and amino acid needs for given animals is

incorporated in this revision The book comes with a CD ROM that allows users to create tables of nutrient requirements for swine of a specific body weight and level of productivity Nutrient Requirements of Swine covers Biological concepts that underlie nutrient needs for growth and function New data on amino acid and energy requirements and the factors that shape them New findings on lysine and the bioavailability of amino acids New research results on minerals and vitamins Nutrient composition of an expanded list of feedstuffs The role of water in swine physiology including factors that affect the quality of drinking water Expanded tables of feed ingredients and their nutrient composition provide bioavailability estimates fatty acid composition of fats typically used in swine diets and important information on estimating the amino acid content of crude protein

Evidence Based Equine Nutrition Teresa Hollands,Lizzie Drury,2023-09-30 This book uniquely provides both the scientific basis of equine nutrition and the translation of that science into practical day to day feeding advice It summarises the latest research to provide readers with the evidence base needed to both confidently advise those who want to understand the science behind equine nutrition and apply that evidence into practical advice for anyone who just wants to know how to feed horses Both veterinary and animal science courses struggle to provide adequate nutrition training within their syllabuses Much of the general information available is poorly explained and not evidence based This book fills that gap with the author team relaying over 50 cumulative years experience teaching equine nutrition to both practising clinicians and students A recommended resource to support the teaching of veterinary nutrition this book should also be found on the bookshelf of all veterinarians animal scientists trainers nutritionists and nutritional advisors

Nutrient Requirements of Beef Cattle Subcommittee on Beef Cattle Nutrition,Committee on Animal Nutrition,Board on Agriculture,National Research Council,2000-05-16 As members of the public becomes more conscious of the food they consume and its content higher standards are expected in the preparation of such food The updated seventh edition of Nutrient Requirements of Beef Cattle explores the impact of cattle s biological production and environmental diversities as well as variations on nutrient utilization and requirements More enhanced than previous editions this edition expands on the descriptions of cattle and their nutritional requirements taking management and environmental conditions into consideration The book clearly communicates the current state of beef cattle nutrient requirements and animal variation by visually presenting related data via computer generated models Nutrient Requirements of Beef Cattle expounds on the effects of beef cattle body condition on the state of compensatory growth takes an in depth look at the variations in cattle type and documents the important effects of the environment and stress on food intake This volume also uses new data on the development of a fetus during pregnancy to prescribe nutrient requirements of gestating cattle more precisely By focusing on factors such as product quality and environmental awareness Nutrient Requirements of Beef Cattle presents standards and advisements for acceptable nutrients in a complete and conventional manner that promotes a more practical understanding and application

Horse Pasture Management Paul H. Sharpe,2024-11-19 Horse Pasture Management Second Edition provides updated

coverage on strategies for managing behavior grouping environments and feeding needs of grazing horses Sections cover the structure function and identification of forages continuing into nutritional value of pasture plants Management of soil the function of a pasture ecosystem and management of plants in a pasture is covered next followed by forage yield determination horse grazing behavior feed choices of horses management of grazing horses and how to calculate how many horses should be grazing relative to land size Advantages of grazing more than one species of animal are described Management of hay and silage are included since year round grazing is not possible on many horse farms Several chapters deal with interactions of a horse farm with the environment including climate and weather and other living things The book also covers strategies for managing manure erosion and water quality It is ideal for researchers scientists and students involved in animal science specifically equine studies Agriculturists equine managers and veterinarians will also find this book useful Includes information on environmental best practices plant and soil assessments and wildlife concerns Features a new section on reducing carbon emissions and increasing sustainability on horse farms Explains pasture related diseases weed management and toxic plants to avoid Recommends relevant published resources and extension programs **Core**

Competencies of a Veterinary Graduate Subhash Verma,Yashpal Singh Malik,Geetanjali Singh,Prasenjit Dhar,Amit Kumar Singla,2024-04-13 This book is an essential guide for veterinarians veterinary faculty and policymakers for understanding the core competencies of a fresh veterinarian The book briefly covers competencies in preclinical paraclinical and clinical subjects including anatomy physiology biochemistry veterinary jurisprudence animal management welfare including nutrition and breeding infectious and non infectious diseases disease epidemiology diagnosis and treatment prevention control and zoonoses surgical and other clinical interventions The book further includes other competencies including biologicals anti mortem and post mortem inspection certifications applied one health aspects review and analysis of scientific evidence international trade and regulations and organization of veterinary services It also highlights the importance of effective communication interpersonal skills record keeping and management of a small veterinary hospital health informatics etc The book breakdowns the must have competencies of a global veterinarian into different topics and subtopics for easy comprehension and further learning It enables the professional standard setting regulatory bodies and academicians in improved curricula designing and implementation and more importantly tries to bring uniformity in day one veterinary graduates competencies globally enhancing the movement and employability of veterinarians across the world *Feed Your Horse Like a Horse* Juliet M. Getty,2009 Feeding is the foundation of every horse s health and every owner cares about it but answers can be hard to find Based on solid science and the author s long experience *Feed Your Horse Like A Horse* illuminates the secrets of equine nutrition and points the way toward lifelong vitality for your horse Part I explains the physiology of the horse s digestion and nutrient use Part II offers recommendations for specific conditions such as insulin resistance and laminitis as well as discussion about feeding through the life stages from foals to athletes to aged horses

Whether you are a novice horse owner or a seasoned professional *Feed Your Horse Like A Horse* will be your most valuable resource on equine nutrition You'll begin in Section 1 with an up to date overview of nutrition and horse physiology that is designed for everyone from the novice to the lifelong horseman Section 2 will empower you to make the right feeding decisions that support your horse's innate needs regardless of his condition or activity type As a reference book you have the freedom to choose which sections to read Topics include Choosing the right hay or concentrates Helping easy and hard keepers How vitamins and minerals work Recognizing and eliminating stress Importance of salt and other electrolytes Treating insulin resistance Reducing the risk of laminitis Recovery for the rescued horse Nutrient fundamentals Dealing with genetic disorders Managing allergies Alleviating arthritis Diagnosing equine Cushing's disease Preventing ulcers and colic Feeding treats safely Pregnancy and lactation Feeding the orphaned foal Optimizing growth Optimizing athletic work and performance Changing needs as horses age Considerations for donkeys and mules Juliet M Getty Ph D is a consultant speaker and writer in equine nutrition A retired university professor and winner of several teaching awards Dr Getty presents seminars to horse organizations and works with individual owners to create customized nutrition plans designed to prevent illness and optimize their horses overall health and performance Based in beautiful rural Bayfield Colorado Dr Getty runs a consulting company Getty Equine Nutrition LLC GettyEquineNutrition.com through which she helps horse owners locally nationally and internationally The well being of the horse remains Dr Getty's driving motivation and she believes every horse owner should have access to scientific information in order to give every horse a lifetime of vibrant health

Animal Care and Management at the National Zoo National Research Council, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Board on Agriculture and Natural Resources, Committee on a Review of the Smithsonian Institution's National Zoological Park, 2004-03-24 This interim report assesses issues related to animal management husbandry health and care at the Smithsonian Institution's National Zoological Park The report finds that there are shortcomings in care and management that are threatening the well being of the animal collection and identifies the most pressing issues that should be addressed

Nutrient Requirements Of Horses Sixth Revised Edition Animal Nutrition Series Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Nutrient Requirements Of Horses Sixth Revised Edition Animal Nutrition Series**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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