

Effects Of Dietary Zeolite Levels On Some Blood Parameters

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 The Nutritional Effects of Feeding Zeolite A Or Clinoptilolite to Growing Swine
 Proceedings of the Sofia Zeolite Meeting '95, June 18-25, 1995
 Mycotoxins and Animal Foods
 Biology, Husbandry, Diseases, and Research Applications

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Ecohydrology & Hydrobiology Westview Press

Zeolites form a family of minerals which have been known since the 18th century, but they remained a curiosity for scientists and collectors until 60 years ago, when their unique physicochemical properties attracted the attention of many researchers. In the past 30 years there has been an extraordinary development in zeolite science; six International Conferences on Zeolites have been held every 3 years since 1967, and a large number of interesting contributions have been published in their proceedings. Many books, written either by individual authors or by several authors under a leading editor, have been published on these interesting silicate phases, but none has been devoted specifically to natural zeolites, even though this theme may be of interest not only to earth scientists, but also to chemists, as the information obtained from natural samples completes and integrates the characterization of many zeolites. We are trying to fill this gap on the basis of 20 years of research on natural zeolites, which we performed at the University of Modena together with many friends and colleagues. If it is in general difficult to write a scientific book without upsetting somebody, this is particularly true for a book on natural crystals, because mineralogy is an interdisciplinary science which covers some fields of physics, chemistry, it is almost impossible to meet every petrology, geology, and requirement.

Applied Animal Nutrition CRC Press

"Handbook of Natural Zeolites provides a comprehensive and updated summary of all important aspects of natural zeolites science and technology. The e-book contains four sections covering the relevant scientific background, established technologies, recent "

Natural Zeolites, Sofia '95 MDPI

Seven experiments using a total of 3,251 preweaned pigs, nursery pigs, and sows were used to determine the effects of: 1) supplemental vitamin D3 on suckling and nursery pig growth, and maternal performance, and 2) high sulfate water, dietary zeolite and humic substance on nursery pig performance. Also, a web-based survey was developed to question pork producers and advisors of the swine industry on their knowledge of feed efficiency. Experiment 1 tested an oral dose of either; none, 40,000 or 80,000 IU vitamin D3 given to pigs 24 to 48 h after farrowing. No differences in growth performance or bone mineralization were observed, but vitamin D3 supplementation increased serum 25(OH)D3 on d 10, 20, and 30, but returned to control values by d 52. Experiments 2 and 3 evaluated an oral dose of vitamin D3 to pigs just before weaning, as well as added D3 in nursery diets and in drinking water. There were no effects on growth performance; however, serum 25(OH)D3 increased with all sources of vitamin D3 supplementation. Experiment 4 evaluated if pigs had a preference to 1 of 3 dietary concentrations of vitamin D3. Pigs ate less feed from diets containing very high levels of vitamin D3 compared to commonly supplemented levels. Experiment 5 evaluated 3 levels of vitamin D3 in sow diets. There were no effects on sow productivity, subsequent pig performance, or piglet bone ash content. However, increasing vitamin D3 increased sow serum 25(OH)D3, milk vitamin D, and pig serum 25(OH)D3. Experiment 6 and 7 evaluated the effects of dietary zeolite and humic substances in nursery pigs drinking high sulfate water. Ultimately, pigs drinking high sulfate water had increased fecal moisture content and decreased growth performance, and feed additives evaluated were ineffective in ameliorating these negative effects. Finally, data collected from the feed efficiency survey suggest that there are knowledge gaps about practices that effect feed efficiency. Results from this survey will help extension educators better target specific industry segments with current information and provide more specific areas of future research where lack of information has been identified.

Feeds and Feeding Elsevier

Multidisciplinary treatment of the urgent issues surrounding urban pollution worldwide Written by

some of the top experts on the subject in the world, this book presents the diverse, complex and current themes of the urban pollution debate across the built environment, urban development and management continuum. It uniquely combines the science of urban pollution with associated policy that seeks to control it, and includes a comprehensive collection of international case studies showing the status of the problem worldwide. Urban Pollution: Science and Management is a multifaceted collection of chapters that address the contemporary concomitant issues of increasing urban living and associated issues with contamination by offering solutions specifically for the built environment. It covers: the impacts of urban pollution; historical urban pollution; evolution of air quality policy and management in urban areas; ground gases in urban environments; bioaccessibility of trace elements in urban environments; urban wastewater collection, treatment, and disposal; living green roofs; light pollution; river ecology; greywater recycling and reuse; containment of pollution from urban waste disposal sites; bioremediation in urban pollution mitigation; air quality monitoring; urban pollution in China and India; urban planning in sub-Saharan Africa and more. Deals with both the science and the relevant policy and management issues Examines the main sources of urban pollution Covers both first-world and developing world urban pollution issues Integrates the latest scientific research with practical case studies Deals with both legacy and emerging pollutants and their effects The integration of physical and environmental sciences, combined with social, economic and political sciences and the use of case studies makes Urban Pollution: Science and Management an incredibly useful resource for policy experts, scientists, engineers and those interested in the subject.

Chemical Abstracts Macmillan College

This unique publication for the first time brings together scientists from academia, government and industry to discuss the role of omega-3 fatty acids in health, the need to reintroduce them into the food supply, the methods by which this can be accomplished and the state of research. With the domestication of animals, there has been a change in animal feeds, which in turn transformed the composition of meats, particularly the content of essential fatty acids. Changes similar to those in meats have occurred in the composition of eggs, poultry and in fish from aquaculture. Up-to-date reviews on the role of omega-3 fatty acids in health, cardiovascular disease, bone remodeling relative to osteoporosis and in patients with retinitis pigmentosa emphasize the need for a balance of omega-6 and omega-3 fatty acids in the food supply. The reintroduction of omega-3 fatty acids into food products is discussed, and the methods involved in their production as well as their metabolic effects on human beings and companion animals are outlined. Overall, the papers presented indicate the necessity to establish recommended daily intakes for both omega-6 and omega-3 fatty acids. Furthermore, there is a need to redefine food safety; changes in food composition must also be taken into consideration. This unique publication is a valuable source for physicians, nutritionists, dietitians, veterinarians and agriculturalists, as well as for all those concerned with aspects of food production, food technology, food policy and consumer issues. *News and Views from Many Sources on Practical Hatchery Problems* Dr. R. HALICIOGLU During the past few years, considerable research has been undertaken on rabbit nutrition. Rabbit producers, feed manufacturers, animal nutritionists, and others interested in rabbit production will find this book to be the new authority. Comprehensive and up-to-date, the book evaluates new information on such topics as protein digestion and requirements, nutrition/disease interrelationships, feeding behavior, and nutritional factors involved in enteritis.

Natural and Synthetic Zeolites National Academies Press

A collection of key papers and documents dealing with zeolites in their natural state with scientific, mining, industrial and environmental concerns addressed. This conference was the major meeting of the 1990s on this topic.

Abstracts - American Society of Animal Science Academic Press

The Handbook of Zeolite Science and Technology offers effective analyses of salient cases selected

expressly for their relevance to current and prospective research. Presenting the principal theoretical and experimental underpinnings of zeolites, this international effort is at once complete and forward-looking, combining fundamental

The Zebrafish in Biomedical Research Bentham Science Publishers

INTERNATIONAL WORKSHOPS (at IAREC'17) (This book includes English (main) and Turkish languages) International Workshop on Mechanical Engineering International Workshop on Mechatronics Engineering International Workshop on Energy Systems Engineering International Workshop on Automotive Engineering and Aerospace Engineering International Workshop on Material Engineering International Workshop on Manufacturing Engineering International Workshop on Physics Engineering International Workshop on Electrical and Electronics Engineering International Workshop on Computer Engineering and Software Engineering International Workshop on Chemical Engineering International Workshop on Textile Engineering International Workshop on Architecture International Workshop on Civil Engineering International Workshop on Geomatics Engineering International Workshop on Industrial Engineering International Workshop on Food Engineering International Workshop on Aquaculture Engineering International Workshop on Agriculture Engineering International Workshop on Mathematics Engineering International Workshop on Bioengineering Engineering International Workshop on Biomedical Engineering International Workshop on Genetic Engineering International Workshop on Environmental Engineering International Workshop on Other Engineering Science

Science and Management Springer Science & Business Media

The international journal *Ecohydrology & Hydrobiology* (E&H) has been created to promote the concept of Ecohydrology, which is defined as the study of the functional interrelations between hydrology and biota at the catchment scale. Ecohydrology extends from the molecular level to catchment-scale processes and is based on three principles: • framework (hydrological principle) - quantification and integration of hydrological and ecological processes at a basin scale; • target (ecological principle) - necessity of enhancing ecosystem absorbing capacity and ecosystem services; and • management tool (ecological engineering) - the use of ecosystem properties for regulation the interplay between hydrology and biota. The journal encourages the submission of manuscripts which adopt an integrative approach to aquatic sciences, explaining ecological and hydrological processes at a river-basin scale or propose practical applications of this knowledge. It will also consider papers in other hydrobiological fields. Especially welcome are papers on regulatory mechanism within biocenosis and the resistance and resilience of freshwater and coastal zones ecosystems. There is no page charge for published papers. All submitted papers, written exclusively in English, should be original works, unpublished and not under consideration for publication elsewhere. All papers are peer-reviewed. The following types of papers are considered for publication in E&H: • original research papers • invited or submitted review papers, • short communications

Elsevier

Backyard Poultry Medicine and Surgery is a practical resource offering guidance on developing diagnostic and treatment plans for individual companion poultry or small flocks. Organized by body system to aid in developing a differential diagnosis list for common presenting signs, the book provides all the information clinicians need to effectively treat backyard poultry. Written by experts from both the commercial poultry field and the companion avian field, the book provides thorough coverage of both common and less common diseases of backyard chickens, ducks, and other poultry. The book begins with introductory chapters covering general information, an overview of US laws, and basic husbandry concerns, then moves into specific disease chapters organized by system. The book takes an individual medicine perspective throughout, with photographs, radiographs, and histopathological photomicrographs to illustrate principles and diseases. *Backyard Poultry Medicine and Surgery* is an invaluable guide to diseases and treatments for any practitioners treating backyard poultry.

New Zealand Journal of Agricultural Research Wiley-Blackwell

Several studies have been conducted to examine the utilization of non-protein nitrogen by the New Zealand White rabbit. Soybean meal (SBM) or urea added to a low protein (13% CP) diet and a positive control diet were fed to does and their offspring during a nine month experiment. Urea and SBM provided an equal amount of supplementary nitrogen. Performances of does fed the positive control diet were superior to those fed the other diets. Rabbits fed the low protein diet showed the poorest overall performance. Additional urea to the low-protein diet improved litter birth and preweaning traits but postweaning traits were decreased. Therefore no advantage was observed in using urea as a supplementary nitrogen source with a low-protein diet. Feeding the same diet to growing rabbits showed that rabbits fed the urea-containing diet had the highest mortality. There was no difference between adult and fryer rabbits in dry matter (DM) and nitrogen digestibility. Fryers utilized the urea-containing diet more efficiently than did adult in terms of nitrogen retention. The effect of different levels of dietary fiber (10 vs 17% ADF) on urea utilization was studied. Rabbits fed the high fiber diet had increased daily gains and feed intake. Additional urea did not produce any improvement in daily gain. Significant differences in DM, nitrogen and acid detergent fiber (ADF) digestibility were observed. The high fiber diet resulted in decreased apparent digestion coefficients. The effect of low and high starch levels on the efficiency on urea and biuret utilization was also examined. SBM, urea and biuret provided an equal amount of supplementary nitrogen, added to a low-protein diet (12% CP). Rabbits fed the high-starch diets showed significantly higher daily gains. Urea was used more efficiently by rabbits fed the high-starch diets compared to those fed low-starch diets. Biuret was utilized more efficiently than urea in the low-starch diets. DM and ADF digestibility were lower with the low-starch diets. Addition of urea to the low-protein diet increased nitrogen digestibility and retention, suggesting that to some extent growing rabbits could

use urea as a supplementary nitrogen source. The effects of two levels (0 vs 5%) of dietary zeolite on urea utilization were also tested. Inclusion of SBM or replacement of a part of SBM with urea was added to a low- I protein diet. Results showed that additional zeolite did not affect animal performance. Rabbits fed SBM-containing diet showed significant improvement of daily gain.

Replacement of some SBM with urea statistically increased rabbit performances. In conclusion, these studies indicate that urea can not be used effectively for lactating does, but to some extent it can be utilized for growing rabbits, especially if it is used to replace some of the main natural crude protein.

Handbook of Natural Zeolites The Nutritional Effects of Feeding Zeolite A Or Clinoptilolite to Growing Swine Handbook of Natural Zeolites

Consists of abstracts of papers presented at the national and sectional meetings of the American Society of Animal Science.

Poultry Nutrition John Wiley & Sons

The Nutritional Effects of Feeding Zeolite A Or Clinoptilolite to Growing Swine Handbook of Natural Zeolites Bentham Science Publishers

Dissertation Abstracts International Karger Medical and Scientific Publishers

Each of these popular handbooks contains comprehensive information on the nutritional needs of domestic animals and includes extensive tabular data. All are paperback and 8 1/2 x 11. Some books come with diskettes or Cds that allow users to predict nutrient requirements of specific animals under various conditions and at various life stages.

A Guide for Veterinary Practitioners CRC Press

Vol. 5 includes a separately paged special issue, dated June 1926.

Cumulated Index Medicus Pensoft Publishers

The production of animal feed increasingly relies on the global acquisition of feed material, increasing the risk of chemical and microbiological contaminants being transferred into food-producing animals. Animal feed contamination provides a comprehensive overview of recent research into animal feed contaminants and their negative effects on both animal and human health. Part one focuses on the contamination of feeds and fodder by microorganisms and animal by-products. Analysis of contamination by persistent organic pollutants and toxic metals follows in part two, before the problem of natural toxins is considered in part three. Veterinary medicinal products as contaminants are explored in part four, along with a discussion of the use of antimicrobials in animal feed. Part five goes on to highlight the risk from emerging technologies. Finally, part six explores feed safety and quality management by considering the safe supply and management of animal feed, the process of sampling for contaminant analysis, and the GMP+ feed safety assurance scheme. With its distinguished editor and international team of expert contributors, *Animal feed contamination* is an indispensable reference work for all those responsible for food safety control in the food and feed industries, as well as a key source for researchers in this area. Provides a comprehensive review of research into animal feed contaminants and their negative effects on both animal and human health Examines the contamination of feeds and fodder by microorganisms and animal by-products Analyses contamination by persistent organic pollutants, toxic metals and natural toxins

Backyard Poultry Medicine and Surgery

The *Zebrafish in Biomedical Research: Biology, Husbandry, Diseases, and Research Applications* is a comprehensive work that fulfills a critical need for a thorough compilation of information on this species. The text provides significant updates for working vivarium professionals maintaining zebrafish colonies, veterinarians responsible for their care and well-being, zoologists and ethologists studying the species, and investigators using the species to gain critical insights into human physiology and disease. As the zebrafish has become an important model organism for the study of vertebrate development and disease, organ function, behavior, toxicology, cancer, and drug discovery, this book presents an important resource for future research. Presents a complete view of the zebrafish, covering their biology, husbandry, diseases and research applications Includes the work of world-renowned authors Provides the first authoritative and comprehensive treatment of zebrafish in biomedical research as part of the ACLAM series

Nutrient Requirements of Swine

The ingestion of feed containing mycotoxins has serious adverse effects on the health of farm animals, contributing to reduced weight gain, lower reproductivity, damage to the immune system, severe illnesses, and even death. Mycotoxins formed in animal feedstuffs depend on the presence of specific strains of filamentous fungi or molds and are strongly influenced by environmental factors such as temperature and humidity. This book considers the biological nature of mycotoxin formation, the chemical and biological methods of analysis, as well as the extensive range of substrates capable of supporting the growth of toxigenic fungi. The book also provides extensive coverage of the mycotoxicoses of farmed animals and the current state of research into the control and detoxification of mycotoxins. All researchers interested in mycotoxins and their effects on animals will find important information in this book.

The Effects of Various Sources and Levels of Supplemental Vitamin D3 on Growth Performance and Serum 25(OH)D3 of Young Pigs

The aim of this Special Issue is to publish high quality papers concerning poultry nutrition and the interrelations between nutrition, metabolism, microbiota and the health of poultry. Therefore, I invite submissions of recent findings, as original research or reviews, on poultry nutrition, including, but not limited to, the following areas: the effect of feeding on poultry meat end egg quality; nutrient requirements of poultry; the use of functional feed additives to improve gut health and immune status; microbiota; nutraceuticals; soybean meal replacers as alternative sources of protein for poultry; the effects of feeding poultry on environmental impacts; the use of feed/food by-products in poultry diet; and feed technology.