

22 Nutrient Requirements of Swine

TABLE 5 Nutrient Requirements of Growing-Finishing Swine Fed *Ad Libitum*: Percent or Amount per Kilogram of Diet*

Liveweight (kg)		1-5 ^a	5-10	10-20	20-35	35-60	60-100
Expected Daily Gain (g)		200	300	500	600	700	800
Expected Efficiency (g gain/kg feed)		800	600	500	400	350	270
Expected Efficiency (feed/gain)		1.25	1.67	2.00	2.50	2.86	3.73
Digestible energy ^b	kcal	3,700	3,500	3,370	3,380	3,390	3,395
Metabolizable energy ^b	kcal	3,600	3,400	3,160	3,175	3,190	3,195
Crude protein ^c	%	27	20	18	16	14	13
<i>Indispensable amino acids</i>							
Lysine	%	1.28	0.95	0.79	0.70	0.61	0.57
Arginine	%	0.33	0.25	0.23	0.20	0.18	0.16
Histidine	%	0.31	0.23	0.20	0.18	0.16	0.15
Isoleucine	%	0.85	0.63	0.56	0.50	0.44	0.41
Leucine	%	1.01	0.75	0.68	0.60	0.52	0.48
Methionine + cystine ^d	%	0.76	0.56	0.51	0.45	0.40	0.30
Phenylalanine + tyrosine ^e	%	1.18	0.88	0.79	0.70	0.61	0.57
Threonine	%	0.76	0.56	0.51	0.45	0.39	0.37
Tryptophan ^f	%	0.20	0.15	0.13	0.12	0.11	0.10
Valine	%	0.85	0.63	0.56	0.50	0.44	0.41
<i>Mineral elements</i>							
Calcium	%	0.90	0.80	0.65	0.60	0.55	0.50
Phosphorus ^g	%	0.70	0.60	0.55	0.50	0.45	0.40
Sodium	%	0.10	0.10	0.10	0.10	0.10	0.10
Chlorine	%	0.13	0.13	0.13	0.13	0.13	0.13
Potassium	%	0.30	0.26	0.26	0.23	0.20	0.17
Magnesium	%	0.04	0.04	0.04	0.04	0.04	0.04
Iron	mg	150	140	80	60	50	40
Zinc	mg	100	100	80	60	50	50
Manganese	mg	4.0	4.0	3.0	2.0	2.0	2.0
Copper	mg	6.0	6.0	5.0	4.0	3.0	3.0
Iodine	mg	0.14	0.14	0.14	0.14	0.14	0.14
Selenium	mg	0.15	0.15	0.15	0.15	0.15	0.10
<i>Vitamins</i>							
Vitamin A	IU	2,200	2,200	1,750	1,300	1,300	1,300
or β -carotene	mg	8.8	8.8	7.0	5.2	5.2	5.2
Vitamin D	IU	220	220	200	200	150	125
Vitamin E	IU	11	11	11	11	11	11
Vitamin K (menadione)	mg	2.0	2.0	2.0	2.0	2.0	2.0
Riboflavin	mg	3.0	3.0	3.0	2.6	2.2	2.2
Niacin ^h	mg	22	22	18	14	12	10
Pantothenic acid	mg	13	13	11	11	11	11
Vitamin B ₆	mg	22	22	15	11	11	11
Choline ⁱ	mg	1,100	1,100	900	700	550	400
Thiamin	mg	1.3	1.3	1.1	1.1	1.1	1.1
Vitamin B ₁₂	mg	1.5	1.5	1.5	1.1	1.1	1.1
Biotin ^j	mg	0.10	0.10	0.10	0.10	0.10	0.10
Folic acid ^k	mg	0.60	0.60	0.60	0.60	0.60	0.60

* Requirements reflect the estimated levels of each nutrient needed for optimal performance when a fortified grain-soybean meal diet is fed, except that a substantial level of milk products should be included in the diet of the 1-5-kg pig. Concentrations are based upon amounts per unit of air-dry diet (i.e., 90 percent dry matter).

^b These are not absolute requirements but are suggested energy levels derived from diets containing corn and soybean meal (44 percent crude protein). When lower energy grains are fed, these energy levels will not be met; consequently, feed efficiency would be lowered.

^c Approximate protein levels required to meet the need for indispensable amino acids when a fortified grain-soybean meal diet is fed to pigs weighing more than 5 kg.

^d Methionine can fulfill the total requirement; cystine can meet at least 50 percent of the total requirement.

^e Phenylalanine can fulfill the total requirement; tyrosine can meet at least 50 percent of the total requirement.

^f It is assumed that usable tryptophan content of corn does not exceed 0.05 percent.

^g At least 30 percent of the phosphorus requirement should be provided by inorganic and/or animal product sources.

^h It is assumed that most of the niacin present in cereal grains and their by-products is in bound form and thus unavailable to swine. The niacin contributed by these sources is not included in the requirement listed. In excess of its requirement for protein synthesis, tryptophan can be converted to niacin (50 mg tryptophan yields 1 mg niacin).

ⁱ In excess of its requirement for protein synthesis, methionine can spare dietary choline (4.3 mg methionine is equal in methylating capacity to 1 mg choline).

^j These levels are suggested. No requirements have been established.

Nutrient Requirements Of Swine 201

**Subcommittee on Swine
Nutrition, Committee on Animal
Nutrition, National Research Council**

Nutrient Requirements Of Swine 201:

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 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

Nutrient Requirements of Swine ,1968 *Nutrient Requirements of Laboratory Animals*, National Research Council, Board on

Agriculture, Committee on Animal Nutrition, Subcommittee on Laboratory Animal Nutrition, 1995-01-01 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

Sustainable Swine Nutrition Lee I. Chiba, 2013-02-04 Finding sustainable means of swine nutrition is important to both pork industry personnel and the environment alike This reference comprehensively covers the most recent advancements in sustainability that results in more efficient diets thus reducing both production costs and waste Chapters include information on alternative feedstuffs feed additives bioavailability of nutrients and management of wastes and odors Written by internationally recognized experts in the field Sustainable Swine Nutrition will be a valuable reference for those involved in all aspects of pork production Comprehensively covers the most recent advancements in sustainability to promote reduced pork production costs and waste Covers recent topics such as alternative feedstuffs feed additives and bioavailability Discusses environmental topics such as waste and odor management Written by an international team of experts in the field

Swine Nutrition Austin J. Lewis, L. Lee Southern, 2000-12-21 With 42 chapters authored by leading international experts Swine Nutrition Second Edition is a comprehensive reference that covers all aspects of the nutrition of pigs Content includes characteristics of swine and the swine industry with emphasis on the gastrointestinal tract various classes of nutrients how these nutrients are metabolized by swine and the factors affecting their utilization the practical aspects of swine nutrition from birth through gestation lactation in sows and the feeding of adult boars and nutritional aspects of the various feedstuffs commonly fed to swine Rounding the book is coverage of various techniques used in swine nutrition research

Non-Traditional Feeds for Use in Swine Production Phillip A. Thacker, Roy N. Kirkwood, 1992-07-21 and R N Kirkwood Professional Research Associate

The Experimental Animal in Biomedical Research Bernard E. Rollin, 1995-03-13 This volume focuses on considerations that maximize both scientific benefit and animal well being for major species of animals used in biomedical research Each species is discussed in terms of uses in research basic biology husbandry requirements proper handling disease control anesthesia analgesia and stress control natural behavior behavioral needs psychological needs and social needs and ideal environment

for the animals This book is a must for anyone working with experimental animals

Selected References on

Environmental Quality as it Relates to Health, 1974

Principles of Animal Nutrition Guoyao Wu, 2017-11-22

Animals are biological transformers of dietary matter and energy to produce high quality foods and wools for human consumption and use Mammals birds fish and shrimp require nutrients to survive grow develop and reproduce As an interesting dynamic and challenging discipline in biological sciences animal nutrition spans an immense range from chemistry biochemistry anatomy and physiology to reproduction immunology pathology and cell biology Thus nutrition is a foundational subject in livestock poultry and fish production as well as the rearing and health of companion animals This book entitled *Principles of Animal Nutrition* consists of 13 chapters Recent advances in biochemistry physiology and anatomy provide the foundation to understand how nutrients are utilized by ruminants and non ruminants The text begins with an overview of the physiological and biochemical bases of animal nutrition followed by a detailed description of chemical properties of carbohydrates lipids protein and amino acids It advances to the coverage of the digestion absorption transport and metabolism of macronutrients energy vitamins and minerals in animals To integrate the basic knowledge of nutrition with practical animal feeding the book continues with discussion on nutritional requirements of animals for maintenance and production as well as the regulation of food intake by animals Finally the book closes with feed additives including those used to enhance animal growth and survival improve feed efficiency for protein production and replace feed antibiotics While the classical and modern concepts of animal nutrition are emphasized throughout the book every effort has been made to include the most recent progress in this ever expanding field so that readers in various biological disciplines can integrate biochemistry and physiology with nutrition health and disease in mammals birds and other animal species e g fish and shrimp All chapters clearly provide the essential literature related to the principles of animal nutrition which should be useful for academic researchers practitioners beginners and government policy makers This book is an excellent reference for professionals and a comprehensive textbook for senior undergraduate and graduate students in animal science biochemistry biomedicine biology food science nutrition veterinary medicine and related fields

Feeding Farm Animals Thomas Shaw, 1907

Recent Advances in Animal Nutrition W. Haresign, D. J. A. Cole, 2013-10-22

Recent Advances in Animal Nutrition 1990 focuses on technologies and controls needed to ensure meat quality The book first discusses allergic responses to diets in humans Changes in meat consumption and consumer attitudes improving the quality of meat and implications for the future are described The text looks at legislation and its effect on the feed compounder including marketing of feeds medicated feeds bovine spongiform encephalopathy BSE and safety regulations The book also underscores the control of feed born bacterial and viral pathogens in farm animals Animal infections and diseases connected with feeds control measures during manufacture of feeds and public health implications are noted The text also discusses chemical probiosis effects of mycotoxins on animal performance and nutritive value of wheat and its effect on broiler performance The book then focuses on water requirement of growing

finishing pigs Water input output relationships in pigs factors affecting the relative contribution of different water losses uses and factors affecting the supply of water to pigs are described The text also discusses water requirement of poultry piglets and lactating cows The book is a valuable source of data for readers interested in studying the controls and technologies needed to improve meat quality

Swine Nutrition Elwyn R. Miller, Duane E. Ullrey, Austin J. Lewis, 2013-10-22 Swine Nutrition is a comprehensive text reference that deals with the various aspects and knowledge in swine nutrition The book is basically about nutrient utilization by swine The topics discussed concerning this subject are factors influencing swine nutrition nutrient bioavailability appetite and feeding behavior physical forms of feed environment and management immunocompetence genetic and sex considerations mycotoxins and intestinal microbiology Major and unique feedstuffs feeding regimen in different stages of growth and techniques in swine nutrition research are also elaborated The text will be useful to students of advance swine nutrition courses as well as those seeking information in swine nutrition

Modelling Nutrient Utilization in Farm Animals J. P. McNamara, J. France, D. E. Beever, 2000 This book describes current research in modelling nutrient use in farm animals from cellular to ecosystem level The chapters are developed from papers presented at a satellite meeting of the 9th International Symposium on Ruminant Physiology held in South Africa in October 1999 Excellent papers from a top list of contributors Editors of great reputation Covers the current topics of interest

Laboratory Animal Medicine James G. Fox, Bennett J. Cohen, Franklin M. Loew, 2013-10-02 Laboratory Animal Medicine is a compilation of papers that deals with the diseases and biology of major species of animals used in medical research The book discusses animal medicine experimental methods and techniques design and management of animal facilities and legislation on laboratory animals Several papers discuss the biology and diseases of mice hamsters guinea pigs and rabbits Another paper addresses the dog and cat as laboratory animals including sourcing of these animals housing feeding and their nutritional needs as well as breeding and colony management The book also describes ungulates as laboratory animals including topics on sourcing husbandry preventive medical treatments and housing facilities One paper addresses primates as test animals covering the biology and diseases of old world primates Cebidae and ferrets Some papers pertain to the treatment diseases and needed facilities for birds amphibians and fish Other papers then deal with techniques of experimentation anesthesia euthanasia and some factors spontaneous diseases that complicate animal research The text can prove helpful for scientists clinical assistants and researchers whose work involves laboratory animals

Achieving sustainable production of pig meat Volume 2 Emeritus Professor Julian Wiseman, 2017-10-09 Reviews latest research on pig genetics and its implications for improved breeding Detailed review of ways of meeting energy protein vitamin and mineral requirements of pigs Assesses the role of exogenous enzymes growth promoters prebiotics and probiotics in pig nutrition

Animal Feeding and Nutrition Marshall H. Jurgens, 2002

Feed evaluation P.J. Moughan, M.W.A. Verstegen, M.I. Visser-Reyneveld, 2000-11-22 The provision of balanced diets accounts for the major cost in intensive livestock production and to maximise profits requires

continuous improvement in all aspects of dietary formulation. Consequently throughout the world considerable scientific effort is devoted to bringing about a better description of the nutrient content of diverse feedstuffs to understanding the mode of action of anti nutritional factors to improving the description of nutrient requirements and to developing refined technologies for feed formulation processing and provision. Feed evaluation science is a rapidly developing high technology field with feed compounders nutritionists advisors and producers needing to keep abreast of rapid innovation. This text written by a team of international authorities covers basic principles and new developments in feed evaluation for simple stomached animals with an emphasis on pigs and poultry. The topics of nutrient analysis and characterisation nutrient bioavailability post absorptive nutrient utilisation modern approaches to the estimation of nutrient requirements including growth modelling are all covered in depth. Recent advances in feed evaluation for pigs poultry and companion animals are highlighted. The work is essential reading for anyone needing to remain at the forefront of technological developments in feed evaluation.

Animal Nutrition Science Gordon McL. Dryden, 2008. *Animal Nutrition Science* introduces the fundamental topics of animal nutrition in a treatment which deals with terrestrial animals in general. The subjects covered include nutritional ecology and the evolution of feeding styles nutrients including minerals vitamins and water and their functions food composition and methods of evaluating foods mammalian and microbial digestion and the supply of nutrients control and prediction of food intake quantitative nutrition and ration formulation methods of investigating nutritional problems nutritional genomics nutrition and the environment and methods of feed processing and animal responses to processed foods. Publisher's description.

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Table of Contents Nutrient Requirements Of Swine 201

1. Understanding the eBook Nutrient Requirements Of Swine 201
 - The Rise of Digital Reading Nutrient Requirements Of Swine 201
 - Advantages of eBooks Over Traditional Books
2. Identifying Nutrient Requirements Of Swine 201
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nutrient Requirements Of Swine 201
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nutrient Requirements Of Swine 201

- Personalized Recommendations
- Nutrient Requirements Of Swine 201 User Reviews and Ratings
- Nutrient Requirements Of Swine 201 and Bestseller Lists
- 5. Accessing Nutrient Requirements Of Swine 201 Free and Paid eBooks
 - Nutrient Requirements Of Swine 201 Public Domain eBooks
 - Nutrient Requirements Of Swine 201 eBook Subscription Services
 - Nutrient Requirements Of Swine 201 Budget-Friendly Options
- 6. Navigating Nutrient Requirements Of Swine 201 eBook Formats
 - ePub, PDF, MOBI, and More
 - Nutrient Requirements Of Swine 201 Compatibility with Devices
 - Nutrient Requirements Of Swine 201 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nutrient Requirements Of Swine 201
 - Highlighting and Note-Taking Nutrient Requirements Of Swine 201
 - Interactive Elements Nutrient Requirements Of Swine 201
- 8. Staying Engaged with Nutrient Requirements Of Swine 201
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nutrient Requirements Of Swine 201
- 9. Balancing eBooks and Physical Books Nutrient Requirements Of Swine 201
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nutrient Requirements Of Swine 201
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nutrient Requirements Of Swine 201
 - Setting Reading Goals Nutrient Requirements Of Swine 201
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nutrient Requirements Of Swine 201

- Fact-Checking eBook Content of Nutrient Requirements Of Swine 201
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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