

Introduction to Animal Science Exam 1 Study Guide

I. Introduction

- a. Estimates of cost to kinds of harvest cattle
 - i. Natural (withdrawal program)
 - 1. Use of antibiotics is present but it is withdrawn after some time naturally
 - ii. Never-ever
 - 1. No antibiotics ever administered
 - iii. NHTC = Non-hormone treated cattle
- b. Price is the #1 driver of consumer choice

II. Nutrition

- a. Animals look for nutrition with the least amount of effort
- b. Nutrition- study of how the body uses nutrients to sustain life to productive purposes
- c. Nutrition is important because the cost of feed is 45-75% of total cost to raise an animal
- d. What does nutrition affect?
 - i. General health
 - ii. Physical abilities
 - iii. Reproduction
 - iv. Susceptibility to disease
- e. Nutrients-> chemical element or compound that supports any bodily process
 - i. Dietary nonessentials- Don't need in diet
 - ii. Dietary essentials- need in diet
 - iii. Macronutrients- needed in large amounts
 - iv. Micronutrients- needed in trace amounts
- f. What do livestock need to consume?
 - i. Water, Carbohydrates, Proteins, Lipids, Vitamins, Minerals
 - ii. Carbohydrates Proteins and Lipids can be used as a source of energy
 - 1. Carbohydrates are the most important source of energy because it is the one used in more volume
- g. Water
 - i. Uses:
 - 1. Temperature
 - 2. Respiration->metabolism
 - 3. Transport
 - 4. Osmolarity
 - 5. Joint Lubrication
 - ii. Determinants of amount of water needed:
 - 1. Temp
 - 2. Activity
 - 3. Lactation
 - 4. Diet
 - 5. Salt
 - iii. Amount of gallons used by cattle is around 10-40; 40 is when it is in lactation

Animal Science Study Guide

Christian Drosten

Animal Science Study Guide:

Agricultural Education Instructional Materials Ohio State University. Center for Vocational and Technical Education, United States. Office of Education, 1972

A Course of Study Guide for Teaching Animal Science in Vocational Agriculture Utah State Board for Vocational Education. Division of District Programs, Elvin Downs, 1970

Agricultural Education, 1972 **Journal of Animal Science**, 1980 **Training Materials for Animal Facility**

Personnel Karen J. Clingerman, 1990 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1965 *Introduction to Animal Science* W. Stephen Damron, 2000 Innovative in content and perspective this introduction to contemporary animal science puts all of animal science in perspective by examining not only the traditional biological topics e.g. major species nutrition, digestion, feeds, genetics, reproduction, disease and animal behavior but by exploring the dynamic nature of animal science and the many ways in which it is a piece of a much larger whole of agriculture e.g. vertical integration of industry structure and agriculture within society e.g. how animals fit into all of society and how animals contribute to the well-being of man from a worldwide perspective. The Value of Animals to Man Factors Affecting World Agricultural Structure Worldwide Systems of Agricultural Production Introduction to Nutrition The Gastrointestinal Tract Feedstuffs Genetics Animal Breeding Biotechnology and Genetic Engineering Reproductive Physiology Lactation Animal Behavior and Handling Animal Health and Diseases Vertical Integration The Beef Cattle Industry The Dairy Cattle Industry The Poultry Industry The Swine Industry The Sheep and Goat Industries The Horse Companion Animals The Llamoids Rabbits Aquaculture Careers and Career Preparation in Animal Science Animals As Consumers of Grain Asset or Liability Food Safety Animal Welfare and Animal Rights The Role of Animals in Sustainable Agriculture For anyone interested in an expanded view of contemporary animal science

Resources in Education, 1996 **Learning Directory**, 1970

Instructional Materials University of Illinois at Urbana-Champaign. Vocational Agriculture Service, 1994 Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1968

50 Years of Laboratory Animal Science American Association for Laboratory Animal Science, 1999 *Peterson's Guide to Graduate Programs in the Biological and Agricultural Sciences*, 1990 **Subject Guide to Books in Print**, 1997

Laboratory Animal Science, 1980 **The Publishers' Trade List Annual**, 1980 *Catalog of Copyright Entries, Fourth Series* Library of Congress. Copyright Office, 1978 *The Indian Journal of Veterinary Science and Animal Husbandry*, 1953 *Technical Book Review*, 1965 **Study in the American Republics Area**, 1976

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