

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 Use of antibiotics is present but it is withdrawn after some time naturally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

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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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Table of Contents Animal Science Study Guide

1. Understanding the eBook Animal Science Study Guide
 - The Rise of Digital Reading Animal Science Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Animal Science Study Guide
 - 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 Animal Science Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Animal Science Study Guide
 - Personalized Recommendations
 - Animal Science Study Guide User Reviews and Ratings
 - Animal Science Study Guide and Bestseller Lists
5. Accessing Animal Science Study Guide Free and Paid eBooks
 - Animal Science Study Guide Public Domain eBooks
 - Animal Science Study Guide eBook Subscription Services

- Animal Science Study Guide Budget-Friendly Options
- 6. Navigating Animal Science Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Animal Science Study Guide Compatibility with Devices
 - Animal Science Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Animal Science Study Guide
 - Highlighting and Note-Taking Animal Science Study Guide
 - Interactive Elements Animal Science Study Guide
- 8. Staying Engaged with Animal Science Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Animal Science Study Guide
- 9. Balancing eBooks and Physical Books Animal Science Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Animal Science Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Animal Science Study Guide
 - Setting Reading Goals Animal Science Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Animal Science Study Guide
 - Fact-Checking eBook Content of Animal Science Study Guide
 - 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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