Animal Welfare and Ethics Resources for Youth and College Agricultural Educators

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Introduction

The following resource guide was developed to assist 4-H, Future Farmers of America (FFA), and other youth and college agricultural educators in locating materials to assist in teaching animal welfare and ethics. Emphasis was placed on providing materials that are accessible through land grant universities, the collection of the National Agricultural Library (NAL), or the internet. The materials listed include audiovisuals, books, bibliographies, conference proceedings, journal articles, organizations, and websites. This listing is not comprehensive but is intended to act as a starting point for educators to develop curriculum to meet their own specific needs. Selected resources cover welfare, ethics, behavior, care, and health of livestock and poultry.

Inclusion of materials in this guide does not constitute endorsement by the U.S. Department of Agriculture. Items appearing in this publication do not represent positions or policies of the Department of Agriculture or any agency thereof.

Audiovisuals

General | Livestock

The following list of audiovisuals was excerpted from the AWIC publication: Audio-visuals Relating to Animal Care, Use, and Welfare, AWIC Series No. 2000-01, by J.A. Larson and D.J.B. Jensen (2000). To obtain a hard copy of this publication patrons should contact AWIC at (301) 504-6212 or E-mail: awic@nal.usda.gov This publication is also available at the AWIC website at www.nal.usda.gov/awic/pubs/aw2000001.htm

Audiovisuals listed below are available for loan from the National Agricultural Library (NAL). NAL lending policies and other loan information can be obtained from the Document Delivery Services Branch at www.nal.usda/ddsb or E-mail: lending@nal.usda.gov or phone (301) 504-5994. Many animal related videos are available for purchase by contacting publishers and/ or sponsoring organizations directly as well.

GENERAL

A Challenge to Care: Careers in Laboratory Animal Science [videocassette]. Cordoba, TN: American Association for Laboratory Animal Science; c1988; 1/2" VHS, 16 min.

Keywords: Vocational guidance, technicians, research, experimental psychologists.

Note: After a brief argument for the use of laboratory animals in medical research, the program discusses the careers
available in the production, care, and management of laboratory animals.

NAL Call No.: Videocassette No. 711.

**A Question of Respect.** New York: American Society for the Prevention of Cruelty to Animals (ASPCA); 1988; 1/2" VHS, 12 min.

**Keywords:** Animal welfare, laboratory animals, animal experimentation, livestock, pets.

**Note:** The ASPCA looks at the inter-relationship between earth, animals, and man. The video discusses man's responsibility toward animals with respect to research, product testing, and pets.

NAL Call No.: Videocassette No. 801.


**Keywords:** Intensive livestock farming, laboratory animals, animal welfare, ethics.

**Note:** A historical exploration of Western culture's beliefs and practices regarding animals. Two practices are emphasized: the use of animals for food and for experimentation. The views of both critics and supporters of these practices are presented in order to stimulate questions and discussion by the audience. A study guide accompanies the videocassette.

NAL Call No.: Videocassette No. 332.

**An Introduction to Zoonoses** [videocassette]. Manhattan, KS: Kansas State University. College of Medicine; c1991; 1/2" VHS, 18 min.

**Keywords:** Zoonoses, Q fever, Psittacosis, preventative measures.

**Note:** Defines zoonoses and illustrates transmission vectors. Q-fever from dairy cows and Psittacosis from birds are given as examples of zoonotic diseases with symptoms exhibited by humans. Preventative measures of disease avoidance are discussed.

NAL Call No.: Videocassette No. 1661.

**Animal Agriculture: Myths and Facts** [videocassette]. Arlington, VA: Animal Industry Foundation; c1990; 1/2" VHS, 18 min.

**Keywords:** Factory farming, cattle, animal welfare, production.

**Note:** Farmers dispel the myths about cow/calf and feedlot cattle production, as well as turkey, hog, veal, and egg production. They emphasize that the care and well-being of their animals is very important for them and the continuation of their farms.

NAL Call No.: Videocassette No. 1131.

**Animal Care, Use, and Ethics** [videocassette series]. College Station, TX: Instructional Materials Service, Texas A&M
Keywords: Livestock ethics, youth programs, unethical practices, welfare.

Note: Series of seven informative and entertaining educational videos written and produced by Dr. Jeff Goodwin.

**Horses, Kids, and Ethics.** c1997; 1/2" VHS, 13 min., + 1 facilitator guide.

*Note:* This video shares "8 great ways" to make your youth horse program better.

NAL Call No.: Videocassette No. 2671.

**A Step Beyond: A Question of Ethics.** c1995; 1/2" VHS, 23 min. + 1 facilitator guide.

*Note:* How to address the issue of livestock show ethics before situations arise at the local level.

NAL Call No.: Videocassette No. 2662.

**A Question of Ethics.** 1994; 1/2" VHS, 20 min., 30 sec. + 1 facilitator guide.

*Note:* A basic introduction to the issue of livestock show ethics.

NAL Call No.: Videocassette No. 2637.

**The Heart of the Matter.** c1993; 1/2 VHS, 21 min. +1 facilitator guide.

*Note:* A basic introduction to the philosophical concepts related to the case of animals in society.

NAL Call No.: Videocassette No. 1996.

**What's the Beef?** c1991; 15 min. + 1 facilitator guide.

*Note:* A basic introduction to animal activist concerns related to agriculture.

NAL Call No.: Videocassette No. 1284.

**Line in the Sand.** c1996; 16 min. +1 facilitator guide.

*Note:* The 4 step test offered in the video will help individuals discern if certain showing practices are ethical or unethical.

NAL Call No.: Videocassette No. 2669.

**Quality Assurance: A Term Used by Animal Agriculture which Refers to the Production of High Quality, Safe, and Wholesome Food!** [videocassette]. College Station, TX: Instructional Materials Service; c1997, 1/2" VHS, 16 min.

*Note:* Written and produced by Dr. Jeff Goodwin; produced in cooperation with Western Fairs Association...[et al.]. Subtitle on container: Strengthening the chain of wholesome food production. This video addresses the issue of quality assurance in a fun and informative manner. It was designed to compliment quality assurance educational resources compiled by the California Department of Education, Department of Food and Agriculture, Western Fairs Association, available on the internet at http://www.fairsnet.org/quality/index.htm

NAL Call No.: Videocassette No. 2747.
Animal Care and Use: Policy Issues in the 1990's [videocassette]. Katie McCabe; c1989; 1/2" VHS, 40 min.

**Keywords:** Animal rights, animal models, animal welfare, research, political activists.

**Note:** The video is a taping of a conference luncheon addressed by Katie McCabe on the animal rights movement and its effects on biomedical research today and the overall effect it will have on the world in the future.

**NAL Call No.:** Videocassette No. 903.


**Keywords:** Animal rights, animal welfare, factory farming, animal husbandry, farming.

**Note:** Discussion of animal rights and animal welfare in relation to factory farming. The video displays perceived myths by the animal rights movement on factory farming. Discusses animal rights groups, their agendas, and their tactics. Gives advice on how people in the farming industry can deal with the issues and groups.

**NAL Call No.:** Videocassette No. 901.


**Keywords:** Law, legislation, guidelines, impact, Russell and Burch, religion, behavior. Note: Joy Mench, Ph.D, discusses the religious and historical aspects of animal welfare and animal rights, the guidelines and standards established for treatment of animals in a research setting, and the effect of the animal rights movement on both biomedical and agricultural research. She closes by emphasizing the need for more research in animal behavior, in order to maintain and improve the care of agricultural animals.

**NAL Call No.:** Videocassette No. 905.


**Keywords:** Library, information, animal welfare, research, laboratory animals.

**Note:** This video describes the resources and services offered by the Animal Welfare Information Center (AWIC) at USDA's National Agricultural Library, including computer literature searching, production of bibliographies, identification of current research, and referrals. The film details how scientists and others can access information regarding laboratory animal care and use.

**NAL Call No.:** Videocassette No. 559.


**Keywords:** Dairy cows, hogs, poultry, intensive livestock farming, welfare.

**Note:** This film explores the economic and animal husbandry aspects of current animal farming practices through on site interviews with farmers. The film equates proper animal management practices with satisfactory animal welfare
practices.

**NAL Call No.:** Videocassette Nos. 399 and 483.

**Animals, Nature and Religion.** Old Saybrook, CT: Connecticut Video Productions; 1980; 1/2" VHS, 38 min.

**Keywords:** Animal welfare, philosophy, American Indians, Hinduism, Buddhism, Christianity, Judaism, Taoism, sustainable agriculture, behavior, farm animals.

**Note:** Dr. Michael W. Fox surveys a wide spectrum of religious and philosophical thought to encourage respect for animals and nature. Fox emphasizes the need to change mankind's world view from one of self-centered domination (exemplified in the video by animal research, biotechnology, and modern agricultural practices) to a more holistic, interconnected concept of nature. The film ends with a plea for a more gentle, communal, and harmonious approach to life. A script accompanies the video.

**NAL Call No.:** Videocassette Nos. 418, 466, and 467 (three copies).


**Keywords:** Agricultural biotechnology, food biotechnology, genetic engineering, risks, benefits. Note: Explores biotechnology applications in food production and processing, addressing the benefits and risks of agricultural biotechnology.

**Note:** Explores biotechnology applications in food production and processing, addressing the benefits and risks of agricultural biotechnology.

**NAL Call No.:** Videocassette No. 2652.


**Keywords:** Genetic engineering, biotechnology, societal concerns.

**Note:** Geneticist Richard Burgess discusses advances in biotechnology and contemporary social perceptions of continuing research in the field.

**NAL Call No.:** Videocassette No. 1971.

**Biovideo: Animal Senses.** Burlington, NC: Carolina Biological Supply Company; 1987; 1/2" VHS, 30 min.

**Keywords:** Stereoscopic vision, echolocation, pheromone, wild animals.

**Note:** An instructional program appropriate for high school and college science students, it explains how the major senses work and their importance to animal behavior and environmental adaptation. The anatomy and physiology of sight, hearing, smell, taste, touch, feeling, and balance are clearly illustrated using animations, diagrams, and live animals. Vertebrates and insects are emphasized. A manual accompanies the videocassette.

**NAL Call No.:** Videocassette No. 427.
Careers in Veterinary Medicine: a Rainbow of Choices [videocassette]. Raleigh, NC: North Carolina State University, College of Veterinary Medicine; c1992; 1/2" VHS, 20 min.

**Keywords:** Veterinary medicine, career opportunities, vocational guidance.

**Note:** Discusses various opportunities in the field of veterinary medicine in the fields of small animal, large animal, equine, zoo animal practice; public health; and research. Does not mention careers in state or federal regulatory positions or in the pharmaceutical industry.

NAL Call No.: Videocassette No. 1771.

Changing Relationship Between Humans and Animals. Minneapolis, MN: University of Minnesota; 1986; 1/2" VHS, 45 min.

**Keywords:** Pets, intensive livestock farming, biological diversity, technology, future, ethics.

**Note:** Moderator Dr. David Garloff and panelists Drs. Joe Quigley and John Brantner, all of the University of Minnesota, consider changes in the human-animal relationship resulting from modern technology. The panelists address the following questions: What would a world without animals be like? Do we need animals anymore? Why do we have animals if we do not need them? One panelist concludes that as the world becomes more dependent on technology, animals will become less important. Agricultural animals and pets are emphasized in the discussion.

NAL Call No.: Videocassette No. 321.


**Keywords:** Organic farming, ecology, habitat, sustainable agriculture, pesticides, herbicides, crop rotation.

**Note:** In recent years farmers have realized what escalating use of pesticides and herbicides are doing to the land, wildlife, and human health. This video illustrates how farmers are joining with conservationists, as well as land and soil managers, to save soil, water, wildlife, and the farm. The program highlights methods of raising crops that can benefit farming and work with nature's abundance for generations to come. A teacher's guide accompanies the tape.

NAL Call No.: Videocassette No. 1147.

Connections: Animals, People and Biotechnology. St. Louis, MO: Monsanto Company; 1990; 1/2" VHS, 19 min.

**Keywords:** Animal welfare, genetic engineering, feed utilization efficiency, animal experimentation.

**Note:** This video introduces the audience to the use of animals and new biotechnological techniques to assist both man and animal.

NAL Call No.: Videocassette No. 721.


**Keywords:** Bulls, bullfights, animal welfare, pain.
Note: Shows the pain and suffering inflicted on a bull during a bullfight.

NAL Call No.: Videocassette No. 1709.

**Do Animals Reason?** Washington, DC: National Geographic Society; 1975; 16 mm, 14 min.

**Keywords:** Triggerfish, starlings, dolphins, chimpanzees, animal behavior, intelligence.

Note: Demonstrating classic and contemporary animal behavior experiments using fish, birds, and mammals, this film introduces students to the learning abilities of animals. A teacher's guide accompanies the film.

NAL Call No.: Motion Picture No. 188.

**Do Animals Think and Feel?** Minneapolis, MN: University of Minnesota; 1986; 1/2” VHS, 45 min.

**Keywords:** Animal behavior, intelligence, language, cognitive neuropsychology, splitbrain operations.

Note: University of Minnesota faculty members Gail Peterson (psychologist) and Joe Quigley (veterinarian) discuss animal behavior, consciousness, learning, intelligence, and emotions. Comparisons and contrasts are made between the mental and emotional processes of animals and humans. The panelists respond to audience questions.

NAL Call No.: Videocassette No. 319.


**Keywords:** Dairy cattle, US livestock marketing, transportation, handling, export sales, contracts.

Note: Each successful, humane livestock exporting experience is a team effort, and each link in the exporting chain—breeder, veterinarian, trucker, freight forwarder, and animal handler is essential. This video follows a shipment of dairy cattle from a farm in Maine to the port of embarkation at JFK International Airport.

NAL Call No.: Videocassette No. 2606.

**Exodus at Yellowstone: The Second Catastrophe.** Sacramento, CA: Animal Protection Institute of America; 1989; 1/2” VHS, 30 min.

**Keywords:** Hunting, bison, ecology, wildlife.

Note: In the winter of 1989, following a severe drought and fire that destroyed food supplies within the park, large numbers of bison were shot after straying beyond Yellowstone National Park boundaries. Various animal protection advocates voice their protests over bison hunting, which is sanctioned by the Montana State Department of Wildlife.

NAL Call No.: Videocassette No. 547.

**Facing the Animal Rights Challenge.** Animal Health Institute: Alexandria, VA; 1985; 49 slides, audiocassette, 7 min.
Keywords: Farm animals, animal welfare, legislation.

Note: Directed at livestock producers, this slide presentation answers these questions: Who are animal rights groups? What are their origins? What do they want to accomplish? What can producers do? The audience is given tips on how to best deal with animal rights demonstrators and how to influence legislation affecting livestock production.

NAL Call No.: 

Farm Animal Behavior Research [videocassette]. Beltsville, MD: National Program Staff, Agricultural Research Service, USDA; June 8, 1990; 1/2" VHS, 100 min.

Keywords: Animal behavior, swine behavior, animal welfare, behavioral research.

Note: A videotaping of a seminar given by Dr. Stanley Curtis. Discusses current research in farm animal behavior, with emphasis on swine behavioral research. Addresses issues such as farm animal welfare, psychological well-being, and animal awareness.

NAL Call No.: Videocassette No. 906.


Keywords: Animal welfare, Great Britain.

Note: Discusses various issues of animal welfare for farm animals in Great Britain.

NAL Call No.: Videocassette No. 2044.

Farm Animals with Care [videocassette]. England: Datascope Communications (produced for Glaxo Group Research in association with the Institute of Animal Technology); c1991; 1/2" VHS, 2 videocassettes, 65 min.

Keywords: Animal welfare, animal health, livestock, housing.

Note: A two volume series that illustrates regimes for housing and care of sheep, goats, pigs, cattle, and poultry, and provides breeding information and demonstrations of routine health care procedures and blood sampling techniques.

NAL Call No.: Videocassette No. 1359.


Keywords: Veterinary drugs, United States, veterinary drug residues, food animal products, testing, drug approval process.

Note: Shows the procedures for testing and approving new animal drugs to ensure they will not negatively effect the safety of animal food products.

NAL Call No.: Videocassette No. 1530.

**Keywords:** Livestock handling, animal welfare, behavior, transport, feeding and watering in markets, moving animals.

**Note:** Discusses viewing the world through the animal's eyes when handling them on the farm, for transport, and at markets. Covers how to transport with gentleness, understanding of the animal's field of vision, point of balance, flight zone, and blind spot, how to feed and water animals at markets, how to move animals without hitting, yelling, or electric shock, how to deal with medical problems, and caring of facilities to reduce injuries. The program was produced in conjunction with the Livestock Marketing Association.

NAL Call No.: Videocassette No. 1334.


**Keywords:** Philosophy, biography, animal rights.

**Note:** An introduction to Peter Singer, his philosophy on animal rights, and his life's work. He describes the movement and how he got involved.

NAL Call No.: Videocassette No. 1080.

Intercultural Views of Animals. Minneapolis, MN: University of Minnesota; 1986; 1/2" VHS, 45 min.

**Keywords:** Cultural values, animals, religion, ethics.

**Note:** Four guests from different socio-religious cultures (Hindu, Moslem, East African, and Buddhist) discuss various aspects of the human-animal relationship relative to their cultural habits, beliefs, and social conventions. Their views are compared with American views on the subject.

NAL Call No.: Videocassette No. 322.


**Keywords:** Quality assurance, livestock ethics, youth programs, animal well-being, quality assurance, welfare.

**Note:** Educational tool kit including video programs with facilitator guides, interactive computer programs and written materials designed to educate producers and exhibitors and enhance their knowledge on the principles and importance of food animal quality assurance and character development. Cost: $200.


**Keywords:** Conservation, natural resources, rangeland, beef cattle.

**Note:** This documentary features seven award-winning cattlemen and the steps their families are taking to ensure the land is productive for this and future generations.

**Keywords:** Konrad Lorenz, animal behavior, animal intelligence, imprinting, social order.

**Note:** Examines the work of behaviorist, Konrad Lorenz, who holds that behavior is determined by a basic genetic blueprint that is modified by experience and innate knowledge. Imprinting and a study of rank and social order are also examined by various observations of various types of animal.

**Livestock in Transit - Handle with Care** [videocassette]. Potters Bar, Herts, England: Humane Slaughter Association; c1989; 1/2" VHS, 27 min.

**Keywords:** Transportation, humane slaughter, animal welfare.

**Note:** This production discusses and demonstrates humane and safe methods for loading, transporting, and unloading livestock.

**Normal and Abnormal Behavior in Domestic Livestock Used for Research** [videocassette]. Beltsville, MD: Animal Welfare Information Center, National Agricultural Library; West Lafayette, IN: Purdue University, c1993; 1/2" VHS, 41 min., 41 sec. includes 1 script.

**Keywords:** Livestock behavior, laboratory animals, cattle, horses, pigs, stereotypic behaviors.

**Note:** Examines normal and abnormal behavior in livestock used for research, helping the viewer distinguish between apparently pointless behavior and the possibility of physiological reasons behind behavior. This project was conducted on a cooperative grant with Purdue University.


**Keywords:** Poultry manure, environmental aspects, Chesapeake Bay, Maryland and Virginia, animal waste disposal, Pfiesteria, pollutants.

**Note:** Discusses how the disposal of animal wastes, particularly poultry manure, contributes to outbreaks of Pfiesteria in the Chesapeake Bay.

**Preserving our Livestock Heritage.** Pittsboro, NC: American Minor Breeds Conservancy, [199-?]. 1 VHS videocassette (13 min., 50 sec.).
**Keywords:** Conserving rare livestock, American Minor Breeds Conservancy organization.

**Note:** Discusses how many livestock breeds are facing extinction as breeders seek to meet farmer requirements for specialized animal traits. Concludes with a brief description of the work of the American Minor Breeds Conservancy.

**NAL Call No.:** Videocassette No. 2097.

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**Safety & Regulatory Issues in Transgenic Production of Biopharmaceuticals.** Bethesda, MD: BioConferences International, Inc; c1994; 1/2" VHS, 93 min.

**Keywords:** Transgenic animals, conference, biopharmaceuticals, safety.

**Note:** Three speakers discuss the role of transgenic animals in the production of biopharmaceuticals. Topics covered include transgenic animals for the production of biological products, production of medicinal products for human use in transgenic animals, and therapeutics from transgenic animals and the adventitious agent concerns. Recorded during a session at BioEast'94 held in Washington, DC, Jan. 24-27, 1994.

**NAL Call No.:** Videocassette No. 1978.

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**Silent World: Genetic Engineering-Ethical, Environmental and Animal Welfare Concerns.** Washington, DC: Center for Respect of Life and Environment; 1988; 1/2" VHS, 39 min.

**Keywords:** Animal welfare, genetics, biotechnology, chimeras, ecology, diseases, patenting, intensive livestock farming, ethics, medical research, pesticides.

**Note:** Dr. Michael W. Fox considers the environmental effects and ethical implications of genetic engineering. Fox warns that the production of genetically altered organisms could lead to environmental devastation, reduced biological diversity, and increased suffering of research animals. The video examines recent genetic manipulations: monoclonal antibody production from mice, insertion of avian leukosis virus into poultry and the AIDS virus into mice, genetically engineered bacteria for bacterial pesticides, and pigs endowed with the human growth gene. The program concludes with a plea for greater respect for the sanctity of life and possible alternatives to genetic engineering.

**NAL Call No.:** Videocassette No. 417.

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**Superanimals, Superhumans? The Life Revolution.** Films for the Humanities (Firm); Primedia Productions. Canoptic Productions.; TVOntario; Telefilm Canada. Princeton, NJ: Films for the Humanities & Sciences, Inc., c1990. 1 VHS videocassette (26 min.).

**Keywords:** Genetic engineering, animals, humans.

**Note:** Looks at the scientific goals and social controls of the genetic engineering of animals and humans. The film is part of the series Films for the Humanities and Sciences; produced by Primedia Productions and Canoptic Productions, in association with Channel 4 and TVOntario, with the participation of Telefilm Canada.

**NAL Call No.:** Videocassette No. 1963.

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**The Americas' View of Animals.** Minneapolis, MN: University of Minnesota; 1986; 1/2" VHS, 45 min.

**Keywords:** Cultural values, history, religion.
Note: Representatives from the Jewish faith, South American Catholic faith, Fundamentalist Christian faith, and Native American culture discuss their views on human-animal relationships in the Americas. The discussion reveals how current attitudes toward animals have been influenced by religious beliefs and historical conventions.

NAL Call No.: Videocassette No. 323.

The Down Side of Livestock Marketing [videocassette]. Watkins Glen, NY: Farm Sanctuary; c1991; 1/2" VHS, 19 min.

Keywords: Cattle, pigs, marketing, animal welfare, downed animals, stockyards.

Note: Frank talk and explicit videotaping of weak, sick, and dying animals at stockyards and auctions comprise this tape. Farmers, livestock handlers, livestock transporters, profit margins, and low livestock prices combine to create pressures to overcrowd animals for transport and to ship sick or downed animals to market.

NAL Call No.: Videocassette No. 1285.

The Future of Human-Animal Relations. Minneapolis, MN: University of Minnesota; 1986; 1/2" VHS, 45 min.

Keywords: Pets, veterinary medicine, farm animals.

Note: This panel discussion addresses such topics as what pets will be like in the future, how preparation of veterinarians will change, the future of food animals, and our changing expectations from pets.

NAL Call No.: Videocassette No. 328.

The Other Side of the Fence [videocassette]. Camden, ME: American Society for the Prevention of Cruelty to Animals and Varied Directions, Inc.; c1988; 1/2" VHS, 10 min.

Keywords: Veal calves, intensive livestock farming, animal welfare.

Note: The narrator questions whether veal calves raised under modern intensive farming systems are supplied their fundamental needs of adequate shelter, nutrition, and companionship. Although the script denigrates this production system, the still pictures and footage of actual veal calf operations provide the viewer with a realistic depiction of modern veal production.

NAL Call No.: Videocassette No. 432.


Keywords: Food safety, food quality, quality environments, handling livestock safely, health regimens, beef, dairy, fish, poultry, sheep, swine.

Note: "Total Quality Management for Youth Producers" is designed to help young people, who raise food animals, apply TQM principles (focusing on the customer, using resources effectively, and continuous product improvement through enhanced problem solving skills) in order to produce high-quality, safe and wholesome food. The curriculum consists of 17 different learning activities and a series of 20 video segments, each under 10 minutes. The experiential learning model encourages youth grades 6-12 to "do" an activity, "reflect" and process what they've done and "use" their new learning by putting in action immediately with their own operation. Cost: $100.

**Keywords:** Transgenic animals, congresses, food biotechnology, regulations, technology.

**Note:** Three speakers discuss transgenic animals as food sources. Topics covered include the Food Safety and Inspection Service's proposal on the regulation of transgenic food animals to ensure the safety and wholesomeness of products resulting from transgenic livestock and poultry, why use transgenic animals for food products, what is transgenic animal technology, and how scientific societies can help the public understand how transgenic animals are achieved.

**NAL Call No.:** Videocassette No. 2195.

Transgenic Animals in the Production of Biopharmaceuticals. Bethesda, MD: BioConferences International, Inc; 1993; 1/2" VHS, 104 min.

**Keywords:** Swine, transgenic animals, conference, biopharmaceuticals, swine.

**Note:** Four speakers discuss the role of transgenic animals in the production of biopharmaceuticals. Topics covered include the technological strategy of making transgenic animals for different purposes, production of proteins in the milk of transgenic animals, production of recombinant human hemoglobin in transgenic swine, and transgenic production of the human cystic fibrosis protein in livestock. The video is of a session of the conference BioEast'93 held in Washington, DC, January 24-27, 1993.

**NAL Call No.:** Videocassette No. 1977.

Transgenic Farm Animals. Washington, DC: USDA Food Safety and Inspection Service; 1986; 1/2" VHS, 53 min.

**Keywords:** Biotechnology, pigs, USDA.

**Note:** This is a videotaped seminar given by Dr. Douglas Bolt, USDA-ARS Reproduction Physiology Laboratory, describing the methodology and results of a research project in which a foreign growth enhancing gene was transferred by microinjection into the pronuclei of a pig's ovum.

**NAL Call No.:** Videocassette No. 264.

Understanding Farm Animal Behavior [videocassette]. Minneapolis, MN: University of Minnesota; c1986; 1/2" VHS, 45 min.

**Keywords:** Cattle, pigs, farm animals, behavior, animal welfare.

**Note:** Dr. William Hall, Professor of Veterinary Medicine at the University of Illinois, and Dr. William Rempel, Professor of Animal Science at the University of Minnesota, discuss and explain aspects of farm animal behavior. The panelists field questions from the moderator and the audience. The discussion touches on factory farming and animal rights.

**NAL Call No.:** Videocassette No. 367.
LIVESTOCK

CATTLE

Horses | Poultry | Rabbits | Sheep | Swine

**Bovine Restraint** [videocassette]. East Lansing, Michigan: Michigan State University; c1976; 1/2" VHS, 12 min., 20 sec.

**Keywords:** Cattle, handling, restraint.

**Note:** Demonstrates a number of ways to restrain cows including the use of the rope halter, nose lead, and burley casting methods.

**NAL Call No.:** Videocassette No. 2042.

**BST & Milk: Issues & Answers.** Image Base (Firm); American Medical Television.; American Medical Association. [S.I.: Image Base, c1993. 1 VHS videocassette (20 min., 30 sec.).

**Keywords:** Bovine somatotropin, composition of milk, use in dairy cattle, societal concerns, animal health.

**Note:** Explores the issues surrounding the use of bovine somatotropin (BST) in cows to increase milk production. Program explores how BST works to stimulate milk production, and supports the argument that its safe for humans to consume milk with BST. Features statements by leading experts, including M. Roy Schwarz, Dennis M. Bier, Sanford A. Miller, Ronald E. Kleinman, Richard H. Phipps and Dennis Avery.

**NAL Call No.:** Videocassette No. 1715.

**BST: Continuing a Dairy Tradition.** St. Louis, MO: Monsanto Company; 1988; 1/2" VHS, 11 min.

**Keywords:** Bovine somatotropin, biotechnology, milk.

**Note:** Experts in animal science, human health, and agricultural economics answer important questions from Wisconsin dairy farmer Greg Mell. The film serves as a general overview of the nature of bovine somatotropin, including its use and safety.

**NAL Call No.:** Videocassette No. 458.


**Keywords:** Bovine somatotropin. agricultural biotechnology, milk products, US.

**Note:** Bovine somatotropin or BST is enhancing the way milk is produced. This video report focuses on how BST fits into the overall biotechnology picture, what possibilities it's likely to present at the retail level and offers some special tactics retailers can use in addressing questions shoppers may have on BST.

**NAL Call No.:** Videocassette No. 1461.
Calving Time Management/Equipment [videocassette]. Part of the series "Video programs for education business industry," Ames, IA: Iowa State University, Cooperative Extension Service; RMI Media Productions; and WOI-TV (Television station). Distributed by RMI Media Productions of Shawnee Mission, KS; c1980; 1/2" VHS, 24 min.

Keywords: Cattle parturition, birthing.

Note: The basics of managing the calving process. Descriptions of needed equipment and basic techniques are discussed.

NAL Call No.: Videocassette No. 1440.

Cattle Handling and Transportation [videocassette]. Bowling Green, KY: Livestock Conservation Institute; c1988; 1/2" VHS, 16 min.

Keywords: Intensive livestock farming, behavior, loading equipment, cattle.

Note: This training video explains the basics of cattle behavior as it relates to moving and transporting livestock efficiently and humanely. Vision, reaction to noise, flight zone, natural circling, and following behavior are discussed. Other topics include overcrowding in pens, use of squeeze chutes, loading and unloading trucks, truck driving techniques, and temperature stress during transportation.

NAL Call No.: Videocassette No. 422.


Keywords: Cows, restraint, handling, veterinary medicine, biomedical techniques.

Note: Volume 1 demonstrates techniques for manually restraining the cow. The tape illustrates the use of the halter, nose ring, nose lead, and hobbles, and demonstrates techniques for manipulating the tail and preventing kicks. Volume 2 demonstrates the following biomedical procedures: blood collection, vein location, bone marrow biopsy, injections, drenching, minor teat surgery, treatment of displaced abomasum and carcinoma of the eye, and use of the stomach tube, dose syringe, balling gun, and speculum.

NAL Call No.: Videocassette No. 227.

Dehorning Cattle [videocassette]. San Luis Obispo, CA: Da-Nel Productions; Vocational Education Productions; c1985; 1/2" VHS, 25 min.

Keywords: Dehorning, techniques, horns, physiology, purpose, animal welfare.

Note: Discusses why and when cattle are dehorned. Provides information on horn growth and its physiology. Gives dehorning techniques used and at what age. Demonstrates several methods of dehorning. Discusses restraint and veterinary care needs.

NAL Call No.: Videocassette No. 844.

Modern Veal Production: A Mixture of Technology and the Family Farm [videocassette]. American Veal Association:
Freemont, WI; c1987; 1/2" VHS, 9 min.

**Keywords:** Farm animals, housing, transportation, nutrition, anemia, husbandry, cattle.

**Note:** This video is part of a marketing effort to educate laymen about how farmers utilize modern technology and proper management practices to raise veal calves. Special fed veal calves are shown in individual pens that reduce stress, decrease health risks, and increase feed efficiency. The video examines nutrition and health maintenance programs and addresses concerns over anemia in calves.

NAL Call No.: Videocassette No. 481.

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Questions & Answers about BST and Milk. Washington, DC: Dairy Coalition, 199-?; 1/2" VHS, 6 min.

**Keywords:** Bovine somatotropin, effects of BST on milk quality and composition.

**Note:** Former U.S. Surgeon General C. Everett Koop answers questions about BST and milk. Topics discussed include the composition of milk from cows treated with BST, the safety of milk from cows treated with BST, the effect of BST on cows' health, antibiotic residues, and labeling requirements for milk from cows treated with BST.

NAL Call No.: Videocassette No. 1885.

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**Keywords:** Veterinary drugs, residues, product quality assurances, diseases chemotherapy, food safety concerns, production practices.

**Note:** Describes the ten-point program established by the National Milk Producers Federation and the American Veterinary Medicine Association to establish standards for the treatment of dairy and beef cattle with drugs and prevent residues from entering the food supply. Emphasizes the importance of the working relationship between the veterinarian and the producer. Produced by the University of California, Davis in cooperation with Agri-Education, Inc. "USDA Extension Service #91-EFSQ-1-4020." Instructional materials include script of video in English and Spanish, questions and answers, narratives to radio messages, 4-H educational package, copies of slides and several articles. Slides originally issued with chapter 8 have been replaced by photos of the slides.

NAL Call No.: Kit No. 246.

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**Keywords:** Veal industry, animal welfare issues, food safety.

**Note:** Describes the veal industry's viewpoint on the issues of animal welfare and food safety.

NAL Call No.: Videocassette No. 1537.

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Understanding Dairy Cattle Behavior to Improve Handling & Production [videocassette]. Bowling Green, KY: Livestock Conservation Institute; c1992; 1/2", 24 min.
Keywords: Dairy farming, dairy cows, behavior, handling, milk production.

Note: Provides insight into dairy cattle behavior for handlers and herders. Gives suggestions to reduce handling stress which can result in improved milk production.

NAL Call No.: Videocassette No. 2036.

Veal Farming Is Special [videocassette]. Park Ridge, IL: American Farm Bureau Federation; c1983; 1/2" VHS, 12 min.

Keywords: Veal calves, intensive livestock farming, animal welfare, husbandry.

Note: Promoting the merits of the veal industry, this film begins with a tour of a family-operated veal farm. Family members comment on aspects of animal management including iron supplementation, ventilation, and sanitation. Dr. Don Lawson of the Provimi Veal Company discusses research on alternate housing systems, including the loose housing and modified stall systems.

NAL Call No.: Videocassette No. 436.

Youth and Dairy Cattle: A Safe Partnership [videocassette]. Bowling Green, KY: Livestock Conservation Institute; c1994; 1/2" VHS, 16 min.

Keywords: Milking cows, calves, livestock farming, animal welfare, husbandry.

Note: This video is designed to teach young people the key principles of dairy cattle behavior. It emphasizes safety and gentle, knowledgeable handling methods. Topics discussed include flight zone, vision, reaction to noise, and following behavior.

NAL Call No.: Videocassette No. 2483.

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**HORSES**

Cattle | Poultry | Rabbits | Sheep | Swine

Barn Construction [videocassette]. Lexington, KY: Blood-Horse Productions; c1984; 1/2" VHS, 30 min.

Keywords: Stables, design, barns, construction, costs.

Note: Tours of several horse barns demonstrate factors such as fire safety, appearance, durability, function and cost which influence barn design.

NAL Call No.: Videocassette No. 1896.

Beating Muscle Injuries in Horses [videocassette]. West Bath, ME: Diamond Video Productions; c1981; 1/2" VHS, 72
Breaking Yearlings [videocassette]. Lexington, KY: Blood-Horse Productions; c1985; 1/2" VHS, 38 min.

Keywords: Horses, yearlings, breaking, training for racing.

Note: Shows step by step procedures that professionals have found successful in breaking yearlings and developing race horse potential.

NAL Call No.: Videocassette No. 1895.

Broodmare Management [videocassette]. Lexington, KY: Blood-Horse Productions; c1984; 1/2" VHS, 32 min.

Keywords: Thoroughbred horse breeding, mares, management.

Note: Describes a management program for the breeding of thoroughbred horses, with emphasis on the care and preparation of the mare. Discusses the use of artificial lighting, a teasing program, rectal palpation, use of hormones, diagnostic ultra-sound examination, endoscopic examination, clinics for infertile mares, breeding sheds, and the shipping of foaling mares. The intended audience for this program is thoroughbred horse breeders.

NAL Call No.: Videocassette No. 1891.

Careers in the Horse Industry: Unbridled Opportunities [videocassette]. Washington, DC: Colorado State University, Public Relations Department, Equine Sciences Program, Extension Horse Program; 1990; 1/2" VHS, 24 min.

Keywords: Interviews, industry, vocations, youth education.

Note: Designed for youth interested in horses and seeking careers and opportunities within the horse industry. It features interviews with people in all aspects of the industry, including trainers, veterinarians, sales agents, advertisers, photographers, computer specialists, lawyers, and journalists.

NAL Call No.: Videocassette No. 1318.

Emergency Care [videocassette]. Lexington, KY: Blood-Horse Productions; c1984; 1/2" VHS, 32 min.

Keywords: Horses, diseases, injuries, veterinary care, diagnosis, physical examination.

Note: A veterinarian demonstrates a routine physical examination which could be performed by a farm manager when faced with a sick or injured horse.

NAL Call No.: Videocassette No. 1898.
VHS, 60 min.

**Keywords:** Horse shoeing.

**Note:** Meredith Clarke explains the intricate relationship between the structure and function of the foot, and correct shoeing procedures.

**NAL Call No.:** Videocassette No. 1903.

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**Foal Management** [videocassette]. Lexington, KY: Blood-Horse Productions; c1984; 1/2" VHS, ca. 30 min.

**Keywords:** Foals, management, husbandry.

**Note:** Visits to several horse breeding farms afford an insight into the importance of early handling, vaccination and feeding programs, illnesses common to the young horse, and proper hoof care.

**NAL Call No.:** Videocassette No. 1892.

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**Keywords:** Foals, birth, postnatal care, mares, reproduction.

**Note:** Covers care of pregnant mare, foaling equipment and facilities, and all aspects of postnatal care.

**NAL Call No.:** Videocassette No. 2011.

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**Horses, Kids, and Ethics** [videocassette]. College Station, TX: Instructional Materials Service, Texas A&M University; c1997; 1/2" VHS, 13 min. Includes a guide book.

**Keywords:** Ethics, animal welfare, youth, 4-H, unethical practices.

**Note:** Dr. Jeff Goodwin discusses ethical decisions in youth horse programs.

**NAL Call No.:** Videocassette No. 2671.

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**Keywords:** Foal behavior, imprinting, psychology.

**Note:** Dr. Robert Miller covers the training of foals from the time of birth through first months to gentile them, prepare them for future schooling, and to minimize injury to handlers.

**NAL Call No.:** Videocassette No. 1902.

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**TTouch for Horses** [videocassette]. La Quinta, CA: Thane Marketing International; c1993; 1/2" VHS, 47 min.

**Keywords:** Behavior, training, health, animal communication.
Note: Linda Tellington-Jones demonstrates how touches can be used to change a horse's behavior and also to ease pain and stress associated with old age, injuries or surgery.

NAL Call No.: Videocassette No. 2355.

POULTRY

Poultry at Home [videocassette]. Ipswich, UK; Farming Press Videos; Diamond Farm Enterprises; Alexandria Bay, NY; c1993; 1/2" VHS, 77 min.

Keywords: Raising chickens, basic management, health.

Note: A beginner's guide to poultry health and management. Victoria Roberts, and Julie Musk use over 50 pure breeds to illustrate various points. Topics include: choosing your breed, housing, handling, predators, feed and digestion, diseases and parasites, breeding, sexing, candling eggs, and rearing chicks.

NAL Call No.: Videocassette No. 1914.

Sentenced for Life (Also called "Chicken for Dinner"). Potomac, MD: United Poultry Concerns, Inc.; 1990; 1/2" VHS, 34 min.

Keywords: Battery systems, poultry production, intensive housing, welfare.

Note: Produced by Chickens' Lib in the U.K., this exposé documents the battery caging systems used for housing poultry in egg production in Great Britain. Welfare, housing, and behavior are addressed.

NAL Call No.: Videocassette No. 1288.

RABBITS

Rabbits: Bacterial and Mycotic Diseases [slide set]. Seattle, WA: University of Washington, Health Sciences Center for Educational Resources; 1990; 60 slides, guide, audio cassette, 19 min.

Keywords: Signs, diagnosis, observation.

Note: Series 2 of the Laboratory Animal Medicine and Science slide series, which covers clinical signs of pasteurellosis, enterotoxemia, mucoid enteropathy, treponematosis, mastitis, Tyzzer's disease, and superficial...
mycoses.

NAL Call No.: Slide No. 384.

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**SHEEP**

Cattle | Horses | Poultry | Rabbits | Swine

Lamb Survival [videocassette]: Ipswich; Farming Press Videos; Alexandria Bay, NY. Distributed in North America by Diamond Farm Enterprises; c1993, 1/2" VHS, 84 min.

**Keywords:** Lambs, postnatal care.

**Note:** David Henderson presents techniques to help lambs survive their first few days of life.

NAL Call No.: Videocassette No. 1937.

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**SWINE**

Cattle | Horses | Poultry | Rabbits | Sheep


**Keywords:** Pork industry and trade, environmental aspects, agricultural conservation.

**Note:** Presents interviews with several pork producers who have excelled in their efforts to conserve and protect the environment.

NAL Call No.: Videocassette No. 2364.

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**Keywords:** Swine, pork industry and trade, Europe, animal welfare.

**Note:** "Sponsored by the Iowa Pork Producers, Pfizer Animal Health and Schering-Plough Animal Health" Consists of 4 parts. Why the concern? (30 min.); Pigs outside, pigs inside (30 min.); Fiber-based pigs (30 min.); Producers and consumers (30 min.).

NAL Call No.: Videocassette No. 2693.

Keywords: Veterinary drugs, U.S., drug residues, laws and regulations, swine diseases, disease prevention, meat quality.

Note: A learning program designed to teach hog farmers the proper use of veterinary drugs. The two booklets contain the texts of the three learning modules. The videotape is used with lesson III. Issues discussed include: food safety, illegal drug residues, HACCP, drug regulators such as the FDA, EPA and FSIS, medicated feeds, mixing guidelines, and GMP (Good Management Practices). Videotape has segments: Pork quality assurance (37 min.); FDA and your farm: what you need to know (12 min.); Quiz (12 min.).

NAL Call No.: Kit No. 278.

Practical Outdoor Pig Production [videocassette]. Ipswich; Farming Press Videos; Distributed in North America by Diamond Farm Enterprises of Alexandria Bay, NY ; c1993; 1/2 " VHS, 40 min.

Keywords: Swine breeding, housing, record keeping.

Note: Features examples of breeding units showing basic requirements, essential services, housing and equipment, records, and integration with other farming enterprises.

NAL Call No.: Videocassette No. 1912.


Keywords: Swine, humane handling, pork, meat quality.

Note: Shows proper techniques and procedures for handling pigs to insure high quality meat. Narrative is in both English and Spanish.

NAL Call No.: Videocassette No. 2673.

Swine Handling and Transportation [videocassette]. Bowling Green, KY: Livestock Conservation Institute; c1989; 1/2" VHS, 21 min.

Keywords: Swine, handling transport, behavior.

Note: This training video explains the basics of swine behavior as it relates to moving and transporting livestock efficiently and humanely. Vision, reaction to noise, flight zone, environmental stimulation, facility design and equipment maintenance are discussed. Other topics include proper loading and unloading, proper transport, bruise reduction, and pork quality preservation.

NAL Call No.: Videocassette No. 1593.
Entries listed with NAL call numbers may be available through interlibrary loan. However please check your local library first and consult NAL's Document Delivery Services Branch website at www.nal.usda/ddsb for policies and lending guidelines. Or E-mail: lending@nal.usda.gov for further questions regarding lending.

**GENERAL**

**Livestock Ethics | Transport and Handling of Farm Animals | Livestock**


Descriptors: fact sheet, bibliography, lists documents containing codes of practice for swine, dairy, horses, deer, animals used in schools, and rodeos. (Request from AWIC.)


NAL Call No.: HV4711 A587 1997

Descriptors: ethics, animal welfare, environment, pain, fear, behavior, preference.


NAL Call No.: 49 J82

Descriptors: livestock, animal behavior, training of animals, learning ability, animal welfare, feeding preferences, flavor, color, smell, hearing, light regime, infrared radiation, microwave radiation, animal experiments, literature reviews.


NAL Call No.: SF1 L5

Descriptors: legislation, animal welfare, climate, floors, cattle housing, animal husbandry, reviews, organic farming, environmental factors, light, noise, farmers.


NAL Call No.: SF854 I57 1998

Descriptors: livestock, calves, piglets, weaning, animal welfare, health, production, management, housing, veterinary education, nutrition, reproduction.


NAL Call No.: SF1 L5

Descriptors: livestock, health, nutrition, production, biotechnology, genetic engineering, transgenic animals, vaccines, animal welfare, reviews.

NAL Call No.: QL750.A6
Descriptors: livestock, domestic animals, laboratory mammals, pregnancy, progeny, stress response, young animals, animal behavior, fearfulness, learning ability, sex ratio, sex differences, neurohormonal control, animal welfare, literature reviews.

Descriptors: controversial problems, intensive and extensive animal husbandry, ethical considerations, public health, study questions, literature references.

NAL Call No.: SF81 C73
Descriptors: study of farm animal behavior and welfare, directory, journal listing, funding sources, academia, audiovisuals, conferences, books, reviews.

NAL Call No.: SF95 A55
Descriptors: livestock, poultry, Fusarium mycotoxicosis toxicity, food contaminant, animal health, animal productivity, animal welfare.

NAL Call No.: aHV4701 A952
Descriptors: keynote address, defining welfare, research, case histories, poultry, cattle.

NAL Call No.:QP251.A1T5
Descriptors: embryos, embryo transfer, regulations, international agreements, disease control, animal genetic resources, ethics.

NAL Call No.: SF61 M35 1999
Descriptors: husbandry, welfare, production, poultry, cattle, sheep, goats, pigs, rabbits, red deer, fishes, guinea fowls, Cervus elaphus, nutrition, breeding.

NAL Call No.: QL55.G8 1999
Descriptors: policies, guidelines, husbandry, care, welfare, livestock, cattle, horses, poultry, goats, swine, veal calves.

NAL Call No.: SF756.7 F72 1990
Descriptors: housing, reproductive behavior, aggression, dominance.

NAL Call No.: SF756.7 G46 1998
Descriptors: behavioral genetics, animal science, animal domestication, fear, handling, restraint, herding, reproductive behavior.

ISBN:085199296X
Descriptors: slaughter, methods, facility design, slaughter-houses.

NAL Call No.: HV4757.H46 1998
Descriptors: livestock, animal welfare, farm animal production.

NAL Call No.: SF756.7 H68 1998
Descriptors: aggression, play, reproductive behavior, visual fields, species specific behavior.

NAL Call No.: HV4701.A557
Descriptors: livestock, feed additives, coccidiostats, adverse effects, animal welfare, antiinfective agents, growth promoters, dosage effects, adrenal glands, pigs, cattle, chickens, literature reviews.

NAL Call No.: 41.8 M463
Descriptors: animal health, animal production, animal welfare, economics, emotional reactions, sanitation, stress, welfare evaluation.

NAL Call No.: 49 J82
Descriptors: non-food industries, food safety, environmental protection, sustainability, biotechnology, animal welfare, drug residues, research support, drugs, veterinary products, university research.

NAL Call No.: TX373.M4
Descriptors: animal welfare, livestock, neurophysiology, slaughter, transport of animals, pain, literature reviews.

NAL Call No.: SF745 A39 v. 41
Descriptors: animal diseases, prevention and control, immunology, animal welfare, vaccines, animal welfare, trends, international cooperation, quality control.

NAL Call No.: 49 J82
Descriptors: meat and livestock industry, meat production, domestic consumption, exports, pig farming, cattle farming, agricultural research, extension.

NAL Call No.: SF601.14
Descriptors: pain, husbandry, surgery, dehorning, stress, physiology, castration, branding, trauma, hydrocortisone, age, lambs, calves, kids, anesthesia, local anesthesia, neuroleptics, psychotropic drugs, non-steroidal anti-inflammatory agents, animal welfare.


**Descriptors:** ethics, animal production, animal welfare, housing, environment, assessment.


**NAL Call No.:** HV4704.E84 1998

**Descriptors:** animal welfare, pain, mental stress, species differences, symptoms, stress, literature reviews, livestock, perception, hearing, smell, taste, vision, animal experiments, animal behavior.


**NAL Call No.:** SF1.A56

**Descriptors:** livestock, mental ability, animal behavior, learning ability, animal welfare, species differences, conditioned reflexes, discrimination, literature reviews.


**NAL Call No.:** SF601.P7

**Descriptors:** livestock, epidemiology, quality controls, animal husbandry, farms, animal production, food safety, foods, public health, food industry, animal welfare, health, risk reduction.


**NAL Call No.:** S675.N72 no. 84

**Descriptors:** international research findings, livestock, poultry, animal welfare, animal behavior, housing facility design.


**NAL Call No.:** QL750.A6

**Descriptors:** cattle, horses, sheep, goats, pigs, llamas, analgesics, pain, responses, animal behavior, dosage, animal welfare, species differences, conduction anesthesia, agonists, literature reviews.


**NAL Call No.:** 41.8 V641

**Descriptors:** animal welfare, attitudes, education, cows, interactions, questionnaires, students, universities, veterinary education, veterinary schools, cats, dogs, cattle.


**NAL Call No.:** SF601 V534

**Descriptors:** review, tutorial, databases, drug residues, food contamination, veterinary drugs, United States.


**NAL Call No.:** 41.8 V641

**Descriptors:** antibiotics, legislation, livestock, animal health, animal welfare, drug resistance, veterinary medicine.

NAL Call No.: SF406.3.C66 1997
Descriptors: environmental enrichment, rabbits, chickens, cattle, sheep, swine, easy to read, photographs.

NAL Call No.: HV4711 A588 1997
Descriptors: definitions, animal suffering, welfare, shows, livestock species issues, handling.

NAL Call No.: 49 J82
Descriptors: assessing welfare, mental state, fear, pain, boredom, learning, stress, restraint, human/animal relationships.

NAL Call No.: 49 J82
Descriptors: assessing welfare, mental state, fear, pain, boredom, learning, stress, restraint, human/animal relationships.

NAL Call No.: aHV4701.A94 no. 2
Descriptors: behavior, housing, enrichment devices, social contact.

NAL Call No.: QL55 A1I43
Descriptors: livestock, animal experiments, university research, teaching materials, husbandry, welfare.

NAL Call No.: TX373.M4
Descriptors: meat, meat products, meat quality, food contamination, microbial contamination, food hygiene, food sanitation, food safety, slaughter, animal welfare, quality controls, literature reviews.

NAL Call No.: HV4708 D63 1999
Descriptors: cattle, poultry, sheep, pigs, animal care, behavioral requirements, physiological restrictions, psychological well-being.

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**LIVESTOCK ETHICS**

General | Transport and Handling of Farm Animals | Livestock

NAL Call No.: SF118.S55 1995
Descriptors: code of ethics, animal welfare, handling and transport.

NAL Call No.: HD1401 E92

Descriptors: international trade, agricultural and trade policy, animal welfare, case studies, economic analysis, food safety, consumer attitudes, ethics.

NAL Call No.: 275.8 Ag8

Descriptors: agricultural education, learning, FFA, livestock shows.

NAL Call No.: 275.8 Ag8

Descriptors: livestock, agricultural shows, student participation, human behavior, ethics, agricultural education, educational objectives, clenbuterol.

NAL Call No.: QH442 G446

Descriptors: transgenics, biotechnology, recombinant proteins, genetic engineering, therapeutic biological products, transplantation, ethics, milk proteins biosynthesis, rabbits, sheep, cattle.

NAL Call No.: 49 J82

Descriptors: agriculture, forestry, teaching, ethics, values.

NAL Call No.: 49 J82

Descriptors: animal agriculture, ethical issues, meeting abstract.

NAL Call No.: 49 J82

Descriptors: ethics, livestock industry, philosophy, textbooks, audiovisual aids.

NAL Call No.: SF1 L5

Descriptors: farming systems, livestock, sustainability, animal production, animal welfare, models, objectives, agricultural research.

Descriptors: extension educators, animal rights, animal welfare, educational program.
NAL Call No.: 275.28 J82

Goodwin, J. (1993) *Effects of What's the Beef/Here's the Beef, an educational program to address animal activist concerns about animal agriculture, on knowledge and attitudes of Texas extension agents*. Department Information Bulletin 93-1, Texas Agricultural Extension Service, Texas A&M University, College Station: Texas
NAL Call No.: S544.3 T4G66 1993
Descriptors: review of literature, animal rights, animal welfare, extension agents, attitudes.


Descriptors: competitions, 4-H, animal handling, animal activists.


Descriptors: animal welfare, bioethics, ethics, legislation, religion, cultural behavior; value systems, biotechnology, animal production, food security, public opinion, consumer preferences, consumer attitudes, animal breeding, animal cloning, genetic engineering, international trade, free trade, food security, environmental impact.


Descriptors: livestock, animal experiments, bioethics, cloning, animal welfare, clones, congenital abnormalities, biotechnology, adverse effects.


Descriptors: livestock farming, decision making, farm planning, ethics, animal welfare.


Descriptors: adrenocortical responsiveness, animal welfare, fearfulness, feather pecking, genetic selection program, growth rate, poultry behavior, productivity, selective breeding, social stress, literature review.

Kilpatrick, K. (Jan. 1999). An ethicist's commentary on whether a veterinarian should recommend adding antibiotics to feed for growth promotion. Canadian Veterinary Journal 40(1):9, ISSN: 0008-5286. NAL Call No.: 41.8 R3224

Descriptors: cattle, animal feed standards, antibiotics, administration and dosage, ethics, veterinary medicine, animal husbandry, food contamination, public health.


Descriptors: livestock, animal welfare, fairs, competitions, unethical conduct.


Descriptors: livestock, animal welfare.


Descriptors: livestock, animal welfare, ethics, higher education, universities, Australia, Austria, Canada, Denmark, Germany, Great Britain, Netherlands, New Zealand, Norway, Sweden, Switzerland, USA.


Descriptors: pharmacology, oral administration, antibiotics, livestock, disease resistance, food safety, reviews.


Descriptors: animal care, biotechnology, dietary concerns, environmental impact, food safety concerns, gene expression, public attitude, reproductive technologies, welfare.


Descriptors: transgenic animals, livestock, ethics, bioethics, professional ethics.


Descriptors: 4-H, FFA, illegal drugs, chemicals, physical alterations, falsification, custom fitters.


Descriptors: transgenics, livestock, poultry, gene expression, embryonic stem cells, nuclei, transfer, spermatozoa, gene transfer, germ cells, insulin-like growth factor, somatotropin, genes, aquaculture, selection, ethics, animal welfare, biotechnology.


Descriptors: animal welfare vs. animal rights, philosophies, ethics, consumer benefits, critical-thinking development, lesson plans.


Descriptors: livestock, agricultural shows, youth programs, welfare, animal husbandry, competitions.


Descriptors: animal husbandry, education, philosophy, ethics, livestock shows.


Descriptors: ethics, agribusiness, consumer attitudes, animal welfare, biotechnology, animal husbandry, genetic engineering, research.
Veterinary Journal 40(4):222-3, ISSN 0008-5286.

NAL Call No.: 41.8 R3224

Descriptors: cattle, animal welfare, ethics, ejaculation, electric stimulation, artificial insemination.


NAL Call No.: SF967.M3N32

Descriptors: animal welfare, dairy cattle.


Descriptors: ethics, animal welfare, culture, urban society, moral concern.


NAL Call No.: HV4757 R65 1995

Descriptors: livestock industry, research, morality, ethics.


Descriptors: livestock shows, ethics, cheating, education, study.


NAL Call No.: SF5 B74 no. 23

Descriptors: animal welfare, livestock, pigs, hens, broilers, legislation, ethics, consumer attitudes, animal housing, food production, slaughter, abattoirs, transport of animals, stunning, foot diseases.


NAL Call No.: SF105 A1Z8

Descriptors: livestock, ethics, interest groups, artificial insemination, animal husbandry methods.


NAL Call No.: HV4701.A557

Descriptors: cattle, dairy, chicken, broiler, farm animals, animal breeding, ethics, preservationist approach, quality of-life-based approach, animal productivity, animal welfare, biodiversity, genetic selection, quality of life.


NAL Call No.: 49 J82

Descriptors: zoology, animal welfare, education, food safety, ethics, agriculture, universities, university research, teaching, extension, environment, animal husbandry, surveys.


NAL Call No.: BJ52.5.M43

Descriptors: agriculture, livestock factories, animal welfare, ethics.


NAL Call No.: 49 J82

Descriptors: bioethics, professional ethics, animal experiments, animal production, biotechnology risk assessment, university research, agricultural colleges.

NAL Call No.: BJ52.5.J68

Descriptors: livestock, cloning, ethics, animal welfare, social benefits, environmental impact.


NAL Call No.: SF1 L5

Descriptors: ethics, livestock, animal production, sustainability, biodiversity, ecology, agricultural research.

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**TRANSPORT and HANDLING of FARM ANIMALS**

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NAL Call No.: SF118.S55 1995

Descriptors: livestock, exhibition, handling, shows.


Descriptors: cattle, sheep, horses, pigs, transport of animals, fish, legislation, animal welfare, trade agreements, trade in animals, air transport, sea transport, road transport, stress, rabies, quarantine.


NAL Call No.: HV4890.4 A3C63 no. 15

Descriptors: Animals Protection Act of 1960, euthanasia, transport, livestock, disabled animals, zoo and circus animals, feral and wild animals, dogs, animal welfare check list.


NAL Call No.: aZ5071.N3

Descriptors: transport, handling, farm animals, bibliography.


NAL Call No.: HV4701.A557

Descriptors: animal welfare, slaughter pigs, pork meat, quality, stress, travel sickness, plasma cortisol.


NAL Call No.: SF5 B74 no. 23

Descriptors: transport of animals, animal welfare, livestock, legislation, road transport, stress, animal behavior, heat stress, social behavior, temperature, food, water, poultry, pigs, cattle, sheep, goats, horses.

**NAL Call No.:** QL62.5.F68 1995

**Descriptors:** immobilization, handle, restraint.


**NAL Call No.:** SF601.V535

**Descriptors:** livestock, handling, stress, movement, behavior, facilities.


**NAL Call No.:** QL750.A6

**Descriptors:** cattle, pigs, sheep, floor, lighting, chutes, pens, transport.


**NAL Call No.:** 41.8 Am3

**Descriptors:** livestock, welfare, husbandry, handling, slaughter, transport.


**NAL Call No.:** aHV4701 A952

**Descriptors:** downer animals, prevention, cattle, hogs, calves, stockyards.


**NAL Call No.:** SF77 G72 1988

**Descriptors:** cattle, hogs, sheep, stress, psychology, handling, bruising. (Available through the Livestock Conservation Institute.)


**NAL Call No.:** SF89 L59

**Descriptors:** handling, management, behavior, restraint.


**NAL Call No.:** SF89 G73 1992

**Descriptors:** cattle, hogs, sheep, stress, weather conditions, loading, trucking tips, space recommendations. (Available through the Livestock Conservation Institute.)


**NAL Call No.:** TS1960 G73

**Descriptors:** livestock holding facilities, trucking, preventing injuries, animal movement, meat quality and animal welfare, prods, adequate pen space, facility layout, loading and unloading, flight zone, point of balance, "follow the leader" instinct, excitable hogs, stunning practices, handling of downer livestock.


**NAL Call No.:** SF51.P76

**Descriptors:** livestock, animal welfare, stress, animal behavior; guidelines, performance, training, animal husbandry, literature reviews.


**Descriptors:** handling, large animal practice, veterinarians, zoological gardens, feedlots, ranching, animal welfare, safety, occupational hazards, fearfulness, animal behavior, training of animals, animal husbandry, cow trainers, animal housing, aggression, aggressive behavior; reviews, cattle, Bison, antelopes, horses, Cervus elaphus canadensis.
**NAL Call No.:** 41.8 M69

**Descriptors:** livestock, handle, husbandry, stockmen, chutes.

**NAL Call No.:** TX373.M4

**Descriptors:** meat quality, slaughter, animal welfare, stress, abattoirs, carcass quality, damage, food hygiene, literature reviews, glycogen, muscles, metabolism, handling, fish, pigs, beef cattle.

**NAL Call No.:** SF5 B74 no. 23

**Descriptors:** animal welfare, transport of animals, slaughter, legislation, abattoirs, livestock, road transport.

Harris, T.C., ed. (1996). **AATA Manual for the Transport of Live Animals by Road.** Animal Transportation Association, PO Box 251, Redhill RH1 5FU, UK.
**NAL Call No.:** SF89 A23 1996

**Descriptors:** road transport, ventilation, safety, animal health, stocking density.

**Descriptors:** livestock, slaughter, euthanasia, animal welfare.

**NAL Call No.:** 47.8 W89

**Descriptors:** broilers, hen, transport, container, capture, handling machinery.

**NAL Call No.:** 41.8 V641

**Descriptors:** review, animal welfare, cattle, transportation, European Union, Pasteurellosis, weight loss.

**NAL Call No.:** SF955.E6

**Descriptors:** horse, transport, orientation, animal welfare.

**NAL Call No.:** SF89 C6

**Descriptors:** livestock, air transport, animal welfare.

**NAL Call No.:** SF5 B74 no. 23

**Descriptors:** abattoirs, animal welfare, legislation, livestock, transport of animals.

**NAL Call No.:** aHV4701.A94-no.4

**Descriptors:** extensive bibliography, livestock, poultry, handling, transport, stress, internet resources, policies, organizations.

NAL Call No.: SF5 B74 no. 23

Descriptors: livestock, animal welfare, legislation, animal production.


NAL Call No.: 41.8 V641

Descriptors: cattle, hydrocortisone, stress, psychological, husbandry, welfare, feces chemistry, transportation.


NAL Call No.: SF140 S33P76

Descriptors: downer animals, prevention, preparation, euthanasia, non-slip flooring, loading ramps, methods for moving downer animals.


NAL Call No.: 49 J82

Descriptors: beef cattle, transport of animals, stress response, oral rehydration therapy, animal welfare, beef quality, drinking water, carcass yield, weight losses, literature reviews.


NAL Call No.: SF955.E6

Descriptors: horse, road transport, stress, body orientation.

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LIVESTOCK

General | Livestock Ethics | Transport and Handling of Farm Animals

CATTLE

Horses | Poultry | Rabbits | Sheep and Goats | Swine


NAL Call No.: SF202.5 A43 1997

Descriptors: history, socialization, reproduction, feeding, maternal, human-cattle interactions, cattle training, behavioural problems, behavioural solutions.


NAL Call No.: SF205 G85 1994

Descriptors: housing, nutrition, care, handling, transport, environment.

**NAL Call No.:** S671.3 A54

**Descriptors:** dairy farms, farms, cows, animal welfare, electricity, electric current.


**NAL Call No.:** 275.29 Ok41C

**Descriptors:** cattle, pen design, construction, floor plans, building.


**NAL Call No.:** aHV4701 A952

**Descriptors:** lack of individual attention, transportation, dehorning, castration, stanchion tying, separation of cow and calf.


**NAL Call No.:** 41.8 Au72

**Descriptors:** docking, cows, dairy cows, animal husbandry, interviews, farmers, risk, leptospirosis, mastitis, bovine mastitis, milk quality, pain, milking, animal welfare, surveys, questionnaires.


**NAL Call No.:** aZ5071.N3 no. 93-07

**Descriptors:** bibliography, handling, husbandry, facilities, care, welfare, well-being, behavior, stress, humane.


**NAL Call No.:** aZ5071.N3 no. 93-58

**Descriptors:** bibliography, handling, husbandry, facilities, care, welfare.


**NAL Call No.:** aZ5071.N3 no. 92-67

**Descriptors:** bibliography, handling, husbandry, facilities, care, welfare, behavior, stress.


**Descriptors:** dairy cows, animal health, animal welfare, management, reviews.


**NAL Call No.:** 41.8 V641

**Descriptors:** cattle, lameness, treatment, foot diseases, orthopaedics, animal welfare, surgical equipment, claws.


**NAL Call No.:** QL750.A6

**Descriptors:** dairy cattle, cows, productivity, attitudes, stockmen, animal behavior, dairy farms, milk yield, trauma, animal welfare, milkers.

**Descriptors:** dairy farms, cattle housing, mechanization, animal welfare, management, calf housing, tethered housing, stalls, cow housing.

**Descriptors:** humidity, fertility, husbandry, synchronization, bulls, cows, heat stress.
Descriptors: cows, cattle, fencing, behavior, vision, movement.

NAL Call No.: SF601.B6
Descriptors: cattle, handling, behavior, perception, stress, guidelines.

NAL Call No.: SF601V484
Descriptors: cattle, calves, Friesian, dehorning, analgesics, anesthesia, butorphanol, hydrocortisone, handling, heart rate, xylazine, animal behavior, physiology, heat, animal welfare.

NAL Call No.: 41.8 AM3
Descriptors: housing, husbandry, pathogen transmission.

Descriptors: stress, pain, social behavior, physiology, stereotypies.

NAL Call No.: S3A27
Descriptors: housing, behavior, health, animal welfare, feed intake, liveweight gain, feeding, cattle feeding, nutrition programmes, heifers, concentrates, dairy herds, group size, animal housing, litter, productivity, aggression, stress, groups.

NAL Call No.: 49J82
Descriptors: dairy cows, blood chemistry, blood plasma, hydrocortisone, stress, jugular vein, acclimatization, animal welfare.

NAL Call No.: HV4701.A557br> Descriptors: animal care, philosophy and ethics, rodents, nervous system disease, porter ethical score system, evaluation method, bovine spongiform encephalopathy, bioassay, diagnostic method, duration, severity, animal welfare, distress, pain.

NAL Call No.: aZ5071.N3
Descriptors: cattle, husbandry, welfare, bibliography.

NAL Call No.: aZ5071.N3
Descriptors: dairy, animal welfare, housing, husbandry.

NAL Call No.: QL750.A6
Descriptors: dairy cattle, animal welfare, farm management, group housing, environment, locomotor play, novel environment, play behavior, age differences, open-field test, positive feelings, social play, space allowance.

NAL Call No.: SF1.A56
Descriptors: dairy cows, Swedish Red-and-White, milking, feeding, timing, physical activity, rumination, eating, drinking, blood plasma, hydrocortisone, hormone secretion, animal welfare.

NAL Call No.: SF601 V484
Descriptors: anesthesia, animal welfare, horns, surgery, pain, cattle.

NAL Call No.: QL750.A6
Descriptors: dairy cattle, Holstein-Friesian, cow, automatic milking system, farm equipment, voluntary automatic milking method.

NAL Call No.: S605.5.B5
Descriptors: cattle, animal husbandry, alternative farming, ethics, animal welfare, sustainability, nature conservation, suckling, public health, animal behavior, dual purpose cattle, veterinary services, feeding, animal housing, calves, evaluation, beef production.

NAL Call No.: S605.5.B5
Descriptors: beef cattle, economic analysis, ethics, nature conservation, sustainability, organic farming, animal welfare, suckling, animal husbandry, farm management, public health, animal behavior, beef production.

NAL Call No.: HD1 A3
Descriptors: beef cattle, models, animal welfare, production costs, efficiency, cattle farming, livestock feeding, food quality, information, prediction, food safety, optimization, farm management.

NAL Call No.: 41.8 V641
Descriptors: review, animal welfare, cattle, transportation, European Union, Pasteurellosis, weight loss.

Knowles, T.G., P.D. Warriss, S.N. Brown, J.E. Edwards (Nov. 1999). Effect on cattle of transportation by road for up to 31 hours. The Veterinary Record: Journal of the British Veterinary Association NAL Call No.: 41.8 V641
Descriptors: cattle, animal welfare, road transport, hydrocortisone, animal behavior, blood composition, animal physiology.

NAL Call No.: 44.8 J822
Descriptors: dairy cows, heart rate, monitoring, telemetry, stress response, agonistic behavior, detection, animal welfare.

case for epidemiological studies. Theriogenology 53(2):549-554, ISSN: 0093-691X.
NAL Call No.: QP251.A175
Descriptors: epidemiology, in vitro, animal experiments, blastocyst, dairy cattle, fertilization, in vitro culture, livestock, reproduction, culture, embryo transfer, animal welfare.

NAL Call No.: SF961 C37
Descriptors: metabolic disorders, lameness, animal diseases, animal health, animal welfare, dairy cows, behavior.

NAL Call No.: SF961 C37
Descriptors: slaughter, emergencies, animal welfare, euthanasia.

NAL Call No.: SF5 B74 no. 23
Descriptors: animal behavior, dairy cattle, animal welfare, livestock, legislation, calves.

NAL Call No.: 41.8 N483
Descriptors: calves, dehorning, responses, analgesics, local anesthesia, pain, animal behaviour, non-steroidal antiinflammatory agents, animal welfare, lidocaine, ketoprofen.

NAL Call No.: SF961 C37
Descriptors: animal health, animal welfare, diagnosis, cows, milking, mastitis, dairy herds, milk yield.

NAL Call No.: BJ52.5 J68
Descriptors: milking, cows, ethics, robots, animal welfare, animal behavior; automation, milking machines.

NAL Call No.: S3 A27
Descriptors: dairy cattle, animal housing, calves, cows, handling, lactation, milk, milk production, milking, pens, cattle housing, animal welfare.

NAL Call No.: HV4701.A557
Descriptors: carcass weight, veal calves, calves, rumen motility, behavior, animal welfare, dry feeds, wet feeding, liquid diets, rumen, rumination, hematology.

NAL Call No.: SF961 C37
Descriptors: stress, metabolic disorders, animal welfare, dairy cows, dairy farming.

NAL Call No.: SF601.P7

Descriptors: dairy cows, mortality, statistical analysis, intensive, livestock farming, market competition, costs, animal welfare, health, epidemiology, concentrates, feed intake, growth rate, herds, assets, livestock numbers, milk yield.


Descriptors: cattle, hydrocortisone, stress, psychological, husbandry, welfare, feces chemistry, transportation.


NAL Call No.: 44.8 J822

Descriptors: quality controls, animal welfare, animal health, milk marketing, milk, milk quality, milk hygiene, dairy farms, farmers, veterinarians, culling, farm management, dairy farming, food safety, milk processing.


NAL Call No.: 41.8 V641

Descriptors: human-animal bond, fear, handling, behavior.


Descriptors: dairy cows, cattle housing, litter, rubber, animal welfare, animal behavior.


NAL Call No.: QL750.A6

Descriptors: dairy cows, milking parlors, milking interval, automation, animal behavior, gates, duration, automatic feed dispensers, concentrates, urination, defecation, animal welfare, use efficiency.


NAL Call No.: SF196 U6D35 1993

Descriptors: care, facilities, nutrition, health, handling, transportation, downer, behavior.


NAL Call No.: SF206 S87 1992

Descriptors: veal calves, environment, housing, individual stalls, group pens, diet, health, stress, behavior.


NAL Call No.: 41.8 C163

Descriptors: Holstein breed, cull dairy cow, abattoir, animal welfare, avoidance behavior, balking, electric prod, escape behavior, ethology, humane handling, slaughter.


NAL Call No.: SF961 C37

Descriptors: animal health, dairy cattle, cows, metabolism, animal welfare, reproductive performance, management, energy
balance.


Descriptors: feeding, grooming, handling.

NAL Call No.: 41.8 V641
Descriptors: animal welfare, animals, newborn, attitude of health personnel, cattle.

NAL Call No.: S530 J6
Descriptors: dairy farming, farm size, livestock numbers, decision making, teaching materials, environmental impact.

NAL Call No.: SF961 C37
Descriptors: ovarian cysts, ovarian diseases, female infertility, etiology, pathogenesis, treatment, cows, economics, reproductive disorders, embryo mortality, oestrus, fertilization, calving interval, milk production, animal housing, nutrition, calving, animal health, animal welfare, metabolic disorders, mastitis, lameness, endometritis.

NAL Call No.: SF961 C37
Descriptors: dairy cattle, reviews, lameness, lesions, foot diseases, dermatitis, animal welfare, pain, economics, risk factors, physiology, locomotion, animal behavior, cattle housing.

Descriptors: cattle, Limousin x Friesian crossbreds, beef cows, Galloway, cold tolerance, adaptation, animal welfare, livestock system, sustainability, outdoor wintering, low mountain range area, roofed area access.

NAL Call No.: QL750.A6
Descriptors: calves, vocalization, branding, restraint of animals, pain, stress response, frequency, animal welfare.

Descriptors: animal welfare, ethology, human management, vocal behavior, physiological function indicator, psychological function indicator, vocalization, dominance, fitness, isolation, pain expression, reproductive status, sex.

NAL Call No.: SF51.P76
Descriptors: dairy cows, veal calves, calf production, milk production, cattle husbandry, artificial rearing, livestock numbers, transport of animals, stress management, loss prevention, animal health, welfare, ventilation.

NAL Call No.: 49 J82
Descriptors: calves, young animals, Holstein, animal housing, stress, veal calves, basophils, blood serum, hydrocortisone, eosinophils, glycoproteins, grooming, leukocytes, monocytes, neutrophils, tethered housing, cattel housing, animal welfare, animal experiments, hematology, blood chemistry, calf housing, stalls, pens, cubicles.
HORSES


NAL Call No.: HV4701.I49

Descriptors: behavior, flight distance principle, human-animal bond, mutual confidence.


NAL Call No.: SF951.H78 1995

Descriptors: disease, care, treatment, symptoms, management.


Descriptors: epidemiology, outbreaks, animal welfare, sudden death, respiratory diseases, endometritis, placentitis, abortion, treatment, vaccines, disease control, disease prevention, disease transmission, Streptococcus equi.


Descriptors: analgesics therapeutic use, horse diseases, drug therapy, pain, adrenergic alpha-agonists, opioids, anti-inflammatory agents.


NAL Call No.: SF951.J65

Descriptors: horses, equipment, complications, exercise, horse riding, animal anatomy, guidelines, animal welfare, animal health, physiopathology, training of animals, air flow, position, gait, abnormal behavior.


NAL Call No.: SF281 F72 1992

Descriptors: evolutionary and neurological basis of behavior, welfare, training, husbandry, sleep, feeding, reproduction, abnormal behaviors, literature review.


NAL Call No.: SF277.O88

Descriptors: growth, nutrition, exercise, disorders, husbandry.


NAL Call No.: 41.8 Am3A

Descriptors: mares, drinking water, water intake, animal welfare, animal health, body temperature, appetite, urine, hygiene, dehydration, drinkers.

Descriptors: horses injuries, animal welfare, athletic injuries, mass screening, prevention and control, risk factors.


Descriptors: animal welfare, slaughterhouse arrival, carcass characteristics, abstract.


NAL Call No.: 41.8 Am3

Descriptors: horses, animal welfare, incidence, transport of animals, abattoirs, body condition, trauma.


Descriptors: animal welfare, youth, education, horses.


NAL Call No.: SF951.H325 1995

Descriptors: care, emergencies, first aid.


NAL Call No.: SF285.3.H54 1997

Descriptors: care, feeding, grooming.


NAL Call No.: SF411.A57

Descriptors: aggression, behavior, handling, care, treatment, welfare.


Descriptors: slaughter, animal welfare, destruction of animals, carcass disposal, euthanasia.


NAL Call No.: SF285 J67 1990

Descriptors: health, shoeing, training, grooming, showing, safety.


Descriptors: animal welfare, euthanasia veterinary, barbiturates, administration and dosage, dehydration, veterinary medicine, methods and standards.


Descriptors: animal welfare, horses, United States.


NAL Call No.: aHV4701.A952

Descriptors: mares, urine, PMSG, pregnancy, animal welfare, inspection, collection, crossbreeding, foals.

horses provided continuous or intermittent access to drinking water. American Journal of Veterinary Research 60(11):1451-1456, ISSN: 0002-9645.
NAL Call No.: 41.8 Am3A
Descriptors: horses, drinking water, water intake, animal behavior, animal welfare, drinkers.

NAL Call No.: SF287 M58 1991
Descriptors: foal behavior, shaping, imprinting, methods.

Descriptors: animal welfare, horses, ethics, animal behavior.

NAL Call No.: In progress
Descriptors: prey animal psychology, behavior, horse/human relationship, humane training techniques, safe horse handling.

Descriptors: veterinary medicine, animal welfare, racehorses, animal health, horse diseases, animal husbandry.

NAL Call No.: aZ5071.N3 no. 94-22
Descriptors: bibliography, flooring, stress, housing design, ventilation, temperature control, transport, social environment.

NAL Call No.: aZ5071.N3
Descriptors: housing, husbandry, behavior, welfare, bibliography.

Descriptors: transport of animals, body condition, leukocyte count, hydrocortisone, dehydration, hematocrit, trauma, muscles, muscle fatigue, stress, weight losses, road transport, livestock transporters, trailers, handling, animal welfare, slaughter.

NAL Call No.: SF915.J63
Descriptors: veterinary products, drugs, testing, drug residues, racehorses, literature reviews, animal welfare.

NAL Call No.: 41.8 C163
Descriptors: horses, transport of animals, stocking density, crowding, floor space, space requirements, calculation, trailers, weight, transit time, animal welfare.

NAL Call No.: 41.8 R3224
Descriptors: horses, transport of animals, space requirements, animal welfare, horse breeds, livestock transporters, height, head, withers, guidelines.

NAL Call No.: SF487 A77 1992

**Descriptors:** housing, husbandry, feeding, nesting, caging.


NAL Call No.: 47.8 B77

**Descriptors:** wire floor nest box, rollaway nest box, egg production, nesting behavior, space, cage, nest box, hens.


**Descriptors:** cages, animal welfare, hens, poultry housing, egg production, animal husbandry.


NAL Call No.: 47.8 Am33P

**Descriptors:** abattoirs, food technology, trends, meat, standards, poultry, animal welfare, electric stimulation, mortality, postmortem changes.


NAL Call No.: 47.8 Am33P

**Descriptors:** chicken, breeds, Barred Red, Buff Prat, Castellana, Castellana x Buff Prat, Red Villafracaduna, heterophil blood and lymphatics, immune system, lymphocyte blood and lymphatics, immune system, animal welfare status, bilateral asymmetry, breed differences, morphological traits, tonic immobility reaction.


NAL Call No.: 7 C16Pu 1757/E

**Descriptors:** poultry, hatcheries, layers, broilers, turkeys, housing, handling, nutrition, animal protection, sanitation, social environment, transport, processors.


NAL Call No.: 47.8 B77

**Descriptors:** hens, stocking density, spatial distribution, perches, litter, nests, floors, nipple drinkers, rest, diurnal variation, physical activity, dust bathing, foraging, eating, drinking, grooming, nesting, animal behavior, animal welfare.


NAL Call No.: 41.8 Am3

**Descriptors:** chickens, animal welfare, physiology, food deprivation, molting, poultry diseases physiopathology, starvation, poultry diseases.

NAL Call No.: 49 J82
Descriptors: fear, stress, battery cages, cage enrichment, cage, hens, body weight, behavior.

NAL Call No.: HV4701.A557
Descriptors: poultry, broilers, strains, strain differences, animal behavior, light, animal housing, environment, animal welfare, age differences, light intensity.

Descriptors: poultry, animal behavior, animal welfare.

Descriptors: environmental dust, poultry housing, lighting, animal behavior, animal welfare, broilers.

NAL Call No.: 47.8 Am33P
Descriptors: abattoirs, food technology, trends, meat, standards, poultry, animal welfare, electric stimulation, mortality, postmortem changes.

NAL Call No.: QL750.A6
Descriptors: hens, feathers, feed troughs, height, feeding frequency, feather pecking, animal welfare, age differences, dust bathing, posture.

NAL Call No.: 47.8 B77
Descriptors: housing, substrate, flock management, production, broilers, welfare.

NAL Call No.: 41.8 V641
Descriptors: chickens, eggs, animal husbandry, animal welfare, body composition, weight loss.

NAL Call No.: 41.8 N483
Descriptors: slaughter, meat quality, animal welfare, poultry.

NAL Call No.: 290.9 Am32T
Descriptors: air quality, poultry housing, dust, animal welfare, mortality, battery cages, ventilation.

NAL Call No.: QL750.A6
Descriptors: hens, litter, barley straw, feathers, nesting, dust bathing, demand, animal welfare.

**Descriptors:** adrenocortical responsiveness, animal welfare, fearfulness, feather pecking, genetic selection program, growth rate, poultry behavior, productivity, selective breeding, social stress, sociality, literature review.

NAL Call No.: QL698 C7
**Descriptors:** animal behavior, social behavior, reviews, animal welfare, stress, selection.

NAL Call No.: S1.M57
**Descriptors:** housing, small farms.

NAL Call No.: aZ5071.N3
**Descriptors:** poultry, housing, husbandry, welfare, bibliography.

NAL Call No.: aZ5071.N3
**Descriptors:** husbandry, bibliography, housing, behavior, physiology.

NAL Call No.: aZ5071.N3
**Descriptors:** husbandry, bibliography, housing, behavior, physiology.

NAL Call No.: QL750.A6
**Descriptors:** broilers, stunning, argon, carbon dioxide, air, oxygen, nitrogen, mixtures, restraint of animals, animal welfare, animal behavior, anoxia.

NAL Call No.: QL750.A6
**Descriptors:** broilers, poultry, perches, poultry housing, animal welfare, animal behavior.

NAL Call No.: 47.8 P8644
**Descriptors:** broilers, poultry, euthanasia, inhalation, stunning, stress, animal welfare, carbon dioxide, nitrogen.

NAL Call No.: 47.8 W89
**Descriptors:** turkeys, animal welfare, stocking density, transport of animals, slaughter, intensive production, growth rate, artificial selection, sexual reproduction, photoperiod, age, air quality, abnormal behavior, gait, literature reviews.

NAL Call No.: 47.8 B77
**Descriptors:** turkeys, stocking density, animal behavior, animal welfare, performance, health, poultry housing, gait, lesions, wounds, liveweight, frequency.
NAL Call No.: QL750.A6
Descriptors: development, light, stress, ontogeny, abnormal development, environmental factors, genetic effects, animal behavior, animal welfare, dyschondroplasia, lighting, poultry.

NAL Call No.: 47.8 Am33P
Descriptors: consciousness, stunning, electric current, slaughter, cardiomyopathy, animal welfare, electronarcosis, electricity, frequency, meat quality, poultry.

NAL Call No.: QL750.A6
Descriptors: animal behavior, broilers, young animals, animal welfare, stimuli, motivation, exploration, poultry housing, poultry.

NAL Call No.: HV4701.J68
Descriptors: hens, capture of animals, osteoporosis, bone strength, bone fractures, pain, transport of animals, slaughter, on-farm, processing, stunning, gases, animal welfare.

NAL Call No.: QL750.A6
Descriptors: hens, stocking density, group size, plumage, feather pecking, age differences, social dominance, animal welfare, laying performance, perches, nests, floors, aggressive behavior.

NAL Call No.: 47.8 P8644
Descriptors: cages, hens, poultry, poultry housing, animal welfare, legislation, litter, floors, enrichment.

NAL Call No.: SF481.25 P68
Descriptors: university, commodity groups, government contacts, experts listed by state and area of interest.

NAL Call No.: 47.8 Am33P
Descriptors: bone development, bone matrix, growth and development, animal welfare, biomechanics, collagen metabolism, pyridinium compounds.

NAL Call No.: 47.8 B77
Descriptors: plumage, feces, feathers, peat, pens, poultry housing, animal behavior, animal welfare, color, litter, feather pecking, poultry.


NAL Call No.: 41.8 V641
Descriptors: broilers, slaughter, transport of animals, time, body temperature, glycogen, liver, winter, summer, animal welfare.


NAL Call No.: 47.8 Am33P
Descriptors: animal welfare, behavior, animal, chickens, food deprivation, body composition, housing, animal, molting, weight loss.


NAL Call No.: QL750.A6
Descriptors: broiler chickens, activity pattern, animal welfare, eating, gait score, lameness (leg weakness), lying, preening, soundness, standing, walking.


NAL Call No.: 47.8 P8644
Descriptors: hens, poultry, osteoporosis, nutrition, genetics, breeding, animal husbandry, housing, cages, animal welfare, bones, fractures, bone diseases, exercise.


NAL Call No.: DISS F1999107


NAL Call No.: 47.8 Am33P
Descriptors: animal welfare, poultry, ascorbic acid, administration and dosage, pharmacology, lymphocyte subsets, abattoirs, behavior, animal, posture, stress, slaughter.

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RABBITS

Cattle | Horses | Poultry | Sheep and Goats | Swine


NAL Call No.: aZ5071.N3 no.94-16
Descriptors: welfare, feeding, housing, social groups, environmental enrichment.


NAL Call No.: QL55.15
**Descriptors:** social groups, solitary housing, space, behavior, environmental enrichment, group housing.


**NAL Call No.:** QL55 A1L33

**Descriptors:** paired housing, single housing, enrichment objects, behavior, social contact.


**NAL Call No.:** QL737 L32J6

**Descriptors:** ambient temperature, photoperiod, spatial needs, stress, social behavior, acoustic environment.


**NAL Call No.:** QL55 A1L3

**Descriptors:** welfare, husbandry, housing, density, environmental enrichment, breeding, health, costs, cage, lighting, natural behavior, stereotyped behavior, temperature, humidity, ventilation, handling, bedding, food.

Poultry Science Association and R.D. Reynnells. (June 1997). *Poultry Science Resource List and Rabbit Resource List* Savoy, IL. (Copies are currently available from AWIC.)

**NAL Call No.:** SF481.25 P68

**Descriptors:** university, commodity group, and government contacts, experts listed by state and area of interest.


**NAL Call No.:** HV4711 A588 1997

**Descriptors:** confinement rearing, breeding, wool harvesting, fur production, transport.

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**SHEEP and GOATS**

**Cattle | Horses | Poultry | Rabbits | Swine**


**NAL Call No.:** aZ5071.N3 no. 94-36

**Descriptors:** bibliography, flooring, crate design, ventilation, temperature control.


**NAL Call No.:** SF386.P94B65 1996

**Descriptors:** care, husbandry, health.


**NAL Call No.:** 49 J82

**Descriptors:** preference testing, aversiveness, spatial behavior, social behavior.
NAL Call No.: HV4711 A588 1997
Descriptors: personnel, facilities, shearing, dogs, castration, tail-docking, lambing, fostering.

NAL Call No.: QL750.A6
Descriptors: handling, fear, heart rate, stress.

NAL Call No.: HV4701.A557
Descriptors: stockpeople, human-animal bond, fear, handling.

NAL Call No.: SF5 B74 no. 23
Descriptors: animal welfare, livestock, legislation, transport of animals, road transport, livestock transporters, temperature, humidity.

NAL Call No.: SF5 B74 no. 23
Descriptors: castration, lambs, animal welfare, livestock, legislation, inflammation, treatment, hydrocortisone, pain, age, sheep.

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**SWINE**

NAL Call No.: aZ5071.N3 no.94-14
Descriptors: welfare, husbandry, housing, bibliography.

NAL Call No.: QL750.A6
Descriptors: feeding, sows, aggression, bites, animal behavior, animal welfare, animal experiments, animal housing, feed intake, dry feeding, dry feeds, wet feeding.


NAL Call No.: 49 J82

Descriptors: hormones, animal behavior, animal welfare, physiology, stress effects, and weaning times.


NAL Call No.: aHV4701.A952

Descriptors: pigs, animal welfare, pig housing, floor space, social dominance, stress factors, extensive livestock farming.


NAL Call No.: SF971 P5

Descriptors: attitudes, animal welfare, consumer behavior, pig farming, questionnaires.


NAL Call No.: QL750.A6

Descriptors: handling, animal behavior, animal welfare, tests, sounds, vision, stress.


NAL Call No.: S605.5 I45 1998

Descriptors: climate, extensive production, extensive husbandry, organic farming, housing, animal welfare, pigs.


NAL Call No.: SF1 A56

Descriptors: hyperthermia, body temperature, heart rate, stress, animal welfare, physiology, animal behavior, pig housing, aggression.


Descriptors: animal behavior; chains, performance, straw, pig housing, animal welfare, equipment, housing, toys.


NAL Call No.: SF1 A56

Descriptors: animal housing, immune response, trauma, antibody formation, bursitis, feet, immunoglobulins, indicators, pens, pig housing, animal welfare, legs, lameness, growth, feed intake, feed conversion efficiency, fattening performance.


NAL Call No.: SF971 N472

Descriptors: castration, piglets, preweaning period, statistical analysis, weaning, weaning weight, weight gain, surgery, animal welfare.

NAL Call No.: QL750.A6
Descriptors: animal welfare, animal behavior, perception, vision, color, smell, odors.

NAL Call No.: aZ5071.N3
Descriptors: welfare, husbandry, housing, bibliography.

NAL Call No.: SF1.A56
Descriptors: pigs, dry feeding, water intake, body weight, liveweight gain, pig feeders, feed intake, feed conversion, animal welfare.

NAL Call No.: HV4701.J68
Descriptors: pigs, pig housing, litter, stocking density, animal behavior, play, winter, abnormal behavior, summer, lameness, wounds, physical activity, blood plasma, hydrocortisone, respiration rate, liveweight gain, feed conversion, animal welfare.

NAL Call No.: 41.8 V641
Descriptors: pregnancy, sows, legislation, pens, animal housing, animal welfare, gilts, pig housing, farrowing houses, farrowing pens, size.

NAL Call No.: SF395.M43 1996
Descriptors: production, nutrition, housing.

NAL Call No.: 286.81 F322
Descriptors: social behavior, pen design, dominance.

NAL Call No.: 49 J82
Descriptors: reduced suckling, reduced standing, increased lying times, weaning weights, and mortality, analgesics.

NAL Call No.: In Process
Descriptors: reviews, animal welfare, feeding behavior, group effect, stress, performance, growth, feed intake, environmental factors, pig feeding, housing.

NAL Call No.: 41.8 V641
Descriptors: floors, floorcoverings, foot injuries, hoof and claw injuries, prevention and control, abattoirs, animal welfare.
husbandry, animal welfare.


NAL Call No.: HV4701.A557
Descriptors: aggressive behavior, animal behavior, dominance, environment, aggression, pig housing, suckling, body weight, social behavior, animal welfare, age differences, animal husbandry.


NAL Call No.: QL750 B4
Descriptors: stress, aggressive behavior, animal behavior, dominance, piglets, sows, aggression, pig housing, animal welfare.


NAL Call No.: QL750.A6
Descriptors: sows, piglets, weaning, pig housing, piglet feeding, floor pens, animal behavior, vocalization, responses, weight losses, bites, liveweight gain, feed intake, litter weight, temperament, maternal behavior, animal welfare.


NAL Call No.: QL750.A6
Descriptors: animal management, animal welfare, environmental preference, equipment design, farrowing pen, floor temperature preference, selection, parturition, thermal environment preference, selection, thermoregulation.


NAL Call No.: 41.8 V641
Descriptors: pigs, stunning, animal welfare, animal behavior, time consciousness, argon, carbon dioxide, feasibility studies.


NAL Call No.: 49 J82
Descriptors: fibre, pregnancy, sows, crude fibre, energy intake, mastication, behavior, appetite, feeding behavior, animal welfare.


NAL Call No.: QH541.15 M3E25
Descriptors: models, risk, international trade, agricultural policy, environmental policy, water quality, animal welfare, pig farming, meat and livestock industry, pollution, optimization, trade liberalization, imports, nitrogen, phosphates.


NAL Call No.: SF5 B74 no. 23
Descriptors: finishing, stocking density, animal welfare, livestock, legislation, animal behavior.


Descriptors: finishing, aggression, liveweight gain, feed dispensers, feeding, animal housing, lesions, pens, skin, skin
lesions, weight gain, animal welfare, fattening performance, group size, feeding behavior.

NAL Call No.: aZ5071.N3 no.91-15
Descriptors: bibliography, flooring, crate design, ventilation, temperature control.

NAL Call No.: aZ5071.N3 no. 91-14
Descriptors: bibliography, behavior, handling, transport, slaughter, housing.

NAL Call No.: SF5 B74 no. 23
Descriptors: animal welfare, livestock, legislation, animal housing, water, drinking, pig housing.

NAL Call No.: SF1.A56
Descriptors: pigs, nipple drinkers, ratios, drinking, water intake, aggressive behavior; group size, lesions, liveweight gain, diurnal variation, feed intake, feed conversion, animal welfare.

NAL Call No.: QL750.A6
Descriptors: piglets, behavior, diets, age, age at weaning, separation, sows, animal welfare.

NAL Call No.: QL750.A6
Descriptors: sows, piglets, pig housing, farrowing pens, floor pens, weaning, aggressive behavior, sow lactation, feeding frequency, suckling, creeps, creep feeding, liveweight gain, animal welfare, feed intake, animal behavior.

NAL Call No.: QL750.A6
Descriptors: behavior, aggression, pens, feeds, litter, housing, management, feeding, social behavior, fibre, straw, sows, molasses, beet pulp, pig housing, animal welfare.

NAL Call No.: QL750.A6
Descriptors: animal welfare, piglets, weaning, age differences, animal husbandry, animal production, abnormal and aggressive behavior.

NAL Call No.: 49 J82
Descriptors: image analysis, imagery, image processing, heat stress, animal behavior, cold stress, heat adaptation, animal
welfare, physiology, posture.


**NAL Call No.:** 290.9 Am32T

**Descriptors:** piglets, weight, nutrition, feeding, transport, physiology, animal welfare, water, body weight, transport of animals, management.

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**Organizations**

Veterinary and animal producer organizations often provide brochures, manuals, audiovisuals, and contact listings. A selected list of organizations are listed below. All websites were accessed in August 2000 to ensure current accuracy.

**American Association for Laboratory Animal Science (AALAS)**
70 Timber Creek Dr., Suite 5
Cordova, TN 38018
Tel: (901) 754-8620, Fax: (901) 753-0046, E-mail: info@aalas.org
WWW: [http://www.aalas.org](http://www.aalas.org)

AALAS certifies laboratory animal technicians who pass an exam based on the AALAS training manuals and other materials such as the National Research Council's Guide for the Care and Use of Laboratory Animals. Training Manual Series: Volume II contains chapters on birds, swine, and ruminants and horses. Behavior, husbandry, diet, handling and restraint, and sexing and breeding are discussed briefly. Accreditation training and manuals are available to AALAS and non-AALAS members. National and regional annual meetings include continuing education and presentations on agricultural animals used in research.

**American Dairy Goat Association**
P.O. Box 865
Spindale, NC 28160
Tel: (828) 286-3801, Fax: (828) 287-0476, E-mail: info@adga.org
WWW: [http://www.adga.org](http://www.adga.org)

American Dairy Goat Association (ADGA) provides fact sheets and brochures related to goat care and production. Topics include establishing a goat herd, husbandry, milk production, health, hoof trimming, and more.

**American Dairy Science Association**
1111 N. Dunlap Avenue
Savoy, IL 61874
Tel: (217) 356-3182, Fax: (217) 398-4119. E-mail: adsa@assoechq.org
WWW: [http://www.adsa.uiuc.edu](http://www.adsa.uiuc.edu)

The objectives of American Dairy Science Association (ADSA) are to stimulate the discovery, application, and dissemination of knowledge. Original research, reviews and timely information are published in the official ADSA
publication, the Journal of Dairy Science. The ADSA website includes additional links to university dairy related websites, breed associations, and databases.

**American Rabbit Breeders Association**
P.O. Box 426
Bloomington, Illinois 61702
Tel: (309) 664-7500, Fax: (309) 309-664 0941, E-mail: ARBAPOST@AOL.COM
WWW: [http://www.arba.net](http://www.arba.net)

The American Rabbit Breeders Association, Inc. (ARBA) is an organization dedicated to the promotion, development and improvement of the domestic rabbit and cavy industry and exhibition. ARBA offers books for sale on husbandry, show standards, and more.

**American Sheep Industry Association (ASI)**
6911 South Yosemite Street
Englewood, CO 80112-1414
Tel: 303-771-3500 FAX: 303-771-8200 E-mail: info@sheepusa.org
WWW: [http://www.sheepusa.org](http://www.sheepusa.org)

ASI's primary purpose is to promote the U.S. sheep industry. Information contained on the ASI website includes care, husbandry, health, and production information. Also included is a For Kids page.

**American Society of Animal Science (ASAS)**
1111 North Dunlap Avenue
Savoy, Illinois 61874
Tel: (217) 356-3182, Fax: (217) 398-4119, E-mail: asas@assochq.org

The American Society of Animal Science (ASAS) is a professional organization for animal scientists designed to help members provide effective leadership through research, extension, teaching and service for the dynamic and rapidly changing livestock and meat industries. ASAS publishes the monthly Journal of Animal Science. The ASAS website includes links to academic organizations, collections, directories, and animal science related organizations.

**American Veterinary Medical Association (AVMA)**
1931 N. Meacham Rd., Suite 100
Schaumburg, IL 60173-4360
Tel: (847) 925-8070, Fax: (847) 925-1329, E-mail: avmainfo@avma.org

The American Veterinary Medical Association (AVMA) is a professional organization composed of large and small animal veterinarians. The objective of the Association is to advance the science and art of veterinary medicine, including its relationship to public health, biological science, and agriculture. The Association publishes two journals, The Journal of the American Veterinary Medical Association (JAVMA) and the American Journal of Veterinary Research. The AVMA Emergency Preparedness and Response Guide provides disaster resource information including: planning and preparation, animal care and handling, training procedures and materials, and key contacts. The AVMA Audiovisual Library provides videotapes on surgical techniques, animal handling, diagnostic techniques, blood sampling, hoof care, shoeing, and general husbandry. The audiovisuals are loaned only to AVMA members, veterinary associations and colleges, veterinary technician training programs, and armed forces veterinary medical units in the
United States. The AVMA website features a Care for Pets site with information on health, pet loss, animal safety, buying a pet, and a kid's corner.

Animal Industry Foundation (AIF)
1501 Wilson Blvd., Suite 1100
Arlington, VA 22209
Tel: (703) 524-0810, Fax: (703) 524-1921, E-mail: aif@aif.org
WWW: http://www.aif.org

AIF is a national nonprofit education organization serving as the collective voice for poultry and livestock producers. The AIF website offers an online guide entitled Teacher Resource Guide to Food Animal Care and Use Issues at http://www.aif.org/guide.htm

The guide lists educational materials available ranging in topics from animal rights, animal well-being, showing, raising a calf, learning kits, children's activities, and more. Each listing includes a description of the materials, the appropriate grade level and ordering information.

Animal Welfare Information Center (AWIC)
National Agricultural Library
10301 Baltimore Blvd.
Beltsville, MD 20705
Tel: (301) 504-6212, Fax: (301) 504-7125, E-mail: awic@nal.usda.gov
WWW: http://www.nal.usda.gov/awic

The Animal Welfare Information Center (AWIC) located at the U.S. Department of Agriculture's National Agricultural Library provides reference services primarily for patrons using animals covered by the Animal Welfare Act. Farm animals used in teaching, testing, and non-production oriented research are covered by the Act. AWIC produces bibliographies on the welfare and husbandry of swine, cattle, horses, sheep, poultry, dogs, cats, rabbits, and rodents. The Animal Welfare Information Center Bulletin contains several articles on agricultural animal care and use including anesthesia, analgesia, animal transport, and animal welfare issues. The AWIC website includes these documents. The site also contains links to the Office of Laboratory Animal Welfare, Animal and Plant Health Inspection Service/Animal Care, and NetVet.

National Council for Agricultural Education
1410 King Street
Suite 400
Alexandria, VA 22314
Tel: (703) 838-5881, Toll Free Tel: 1-800-772-0939 ext. 4241 (USA only), Fax: (703) 838-5888
E-mail: council@teamaged.org
WWW: http://agedhq.org

The Council's activities revolve around prevocational, secondary, post-secondary, young farmer and adult education programs. They also pertain to teacher education supervision and administration of agricultural education programs. The National Council for Agricultural Education (The Council) and the National Association of Agricultural Educators (NAAE) have developed a joint partnership for delivery of the Professional Growth Series. The Professional Growth Series offers instructional materials and training for teachers. The primary focus is to provide teachers of agriculture with timely, innovative, cutting-edge instructional material for integration into their existing curricula.

Instructional materials packages currently exist on the following topics: Animal Welfare; Applied Environmental...
Science; Equine Science; Focusing on Agricultural Issues; Food Science, Safety and Nutrition; and additional topics. Visit http://208.197.129.217/aero/council/index.html for further information.

**National Institute for Animal Agriculture (NIAA)**
1910 Lyda Dr.
Bowling Green, KY 42104-5809
Tel: (270) 782-9798, Fax: (270) 782-0188, E-mail: niaa2000@aol.com
WWW: http://www.animalagriculture.org

The National Institute for Animal Agriculture (NIAA) is an umbrella organization of producers, veterinarians, processors, corporations, and commodity organizations that advocates programs that improve animal health, care, and food safety. NIAA produces educational videos and pamphlets on animal care, behavior, handling, transportation, and disease. Authors include animal scientists working in academic research institutions and commercial production facilities. Videos, pamphlets, and meeting proceedings may be ordered directly from NIAA.

**National Pork Producers Council**
P.O. Box 10383
Des Moines, IA 50306
Tel: (515) 223-2600, Fax: (512) 223-2646, E-mail: pork@nppc.org
WWW: http://www.nppc.org/

In 1996, National Pork Producers Council (NPPC) and the National Pork Board produced the Swine Care Handbook. The handbook covers husbandry systems, management practices, environmental management, facilities and equipment, feeding and nutrition, and herd health management. It includes text and illustrations. Copies can be obtained from NPPC or from the NPPC website at http://www.nppc.org/PROD/swinecarehandbook.html

**Poultry Science Association**
1111 North Dunlap Ave.
Savoy, IL 61874-9604
Tel: (217) 356-3182, Fax: (217) 398-4119, E-mail: http://www.psa.uiuc.edu/cgi-bin/psmall.cgi
WWW: http://www.psa.uiuc.edu

The Poultry Science Association (PSA) is a professional organization consisting of educators, scientists, extension specialists, administrators and producers who are committed to advancing the poultry industry. Helpful links are available to on-line poultry information via the Poultry Science Virtual Library at http://posc.tamu.edu/library/dother.html Links are included to information on management, health, and breeds.

**Website addresses are current as of August 2000.**
The ADDS LABORATORY: Agricultural Databases for Decision Support  
http://www.reeusda.gov/agsys/adds/nadl.htm#PRODUCTS

Comprehensive electronic collections of peer-reviewed and expert-selected educational materials, lists, software tools and other decision aids to support decision making by the nation's farmers, ranchers, growers and forest land owners, and those who work with them in an educational, consultative, or service capacity. Databases available/or in progress for dairy, beef, goat, sheep, and swine. Collections are distributed via CD-ROM and the World Wide Web.

Animal Well-Being and Stress Control Systems  
http://www.nps.ars.usda.gov/programs/105s2.htm

The Agricultural Research Service (ARS) is the principal research agency of the U.S. Department of Agriculture. ARS is charged with extending the nation's scientific knowledge across a broad range of program areas. This website describes ARS research initiatives in the area of farm animal well-being and stress.

AgNIC Animal Science Home Page  
http://www.lib.iastate.edu/animalsci/index.html

The AgNIC Animal Science Page is an experimental reference guide to animal science information on the Internet. It is the Iowa State University component of the Agriculture Network Information Center (AgNIC) coordinated by the National Agricultural Library.

Cooperative State Research Education & Extension Service (CSREES) Home Page  
http://www.reeusda.gov/

CSREES links the research and education programs of the U.S. Department of Agriculture and works with land-grant institutions in each state, territory and the District of Columbia. The mission of CSREES is in cooperation with partners and customers, to advance a global system of research, extension and higher education in the food and agricultural sciences and related environmental and human sciences to benefit people, communities, and the Nation. A clickable map of extension programs by state is available at http://www.reeusda.gov/statepartners/usa.htm

Cow Stress and Well-being Publications  
http://www.inform.umd.edu/EdRev/Topic/AgrEnv/ndd/browse.html

This site contains animal handling tips, stray voltage information, how to reduce heat stress, animal trucking guide, and regulatory issues concerning cattle.

Dr. Temple Grandin’s Web Page  
http://grandin.com

Full text, abstracts, reviews, and general information based on or related to the work of applied ethologist Temple Grandin. Topics include livestock behavior, design of stockyards and restraining systems, humane and ritual slaughter, stress and meat quality, current research, animal welfare/rights, and books.

NetVet  
http://netvet.wustl.edu/vet.htm

NetVet focuses on veterinary resources with links to veterinary education, listservs, organizations, publications, and images. This award-winning site is an excellent starting point for looking for materials for training personnel in care and use of agricultural animals. A useful feature of NetVet is the Electronic Zoo. Among the Electronic Zoo animal group icons are horses, cows, pigs, small ruminants, and birds. Each icon contains a list of websites related to these species. The cow page
for example, http://netvet.wustl.edu/cows.htm, includes links to professional associations such as the American Dairy Science Association, trade publications including Hoard's Dairyman, university departments of animal or dairy sciences, and information publications including Information Resources for Mastitis.

Ohio Agricultural Education WWW Server
http://ad254-5.ag.ohio-state.edu:80/OCMS/OHIO_aged.html

This server provides ordering and pricing information for Learning Laboratory Kits, interactive CDs, books, videos, and brochures. Subject coverage includes quality assurance, animal care, and handling, of beef, dairy, swine, goats, sheep, rabbits, and dogs. Teaching materials for FFA projects are listed as well.

Pigs on the Internet
http://www.pighealth.com/Products/POIDISK.HTM

A guide available on diskette to swine resources on the internet. The diskette includes a special section on youth projects, management, welfare, behavior, transport, and more. The diskette was developed an effort to guide individuals interested in swine through the myriad of resources available on the internet. The disk may be purchased for $40 or 25 GB pounds. The Pigs on the Internet diskette works on either PC (any version of Windows) or Apple Mac computers. For further information contact:

Dr. Michael Meredith, Managing Director
Pig Disease Information Centre Ltd.
4, New Close Farm Business Park
Bar Road, Lolworth, Cambs., CB3 8DS, UK
UK Tel: 01954-780695 UK Fax: 01954-780235
International Fax: +44-1954-780235 or +44-1954-780568
Corporate E-mail: pdic@btinternet.com

Quality Assurance: Strengthening the Chain of Wholesome Food Production
http://www.fairsnet.org/quality/index.htm

The purposes of this site are to provide quality assurance educational opportunities to all youth who raise livestock, poultry, and/or participate in small animal projects. The five quality assurance points of: proper injection sites; proper facilities; nutrition; reading and following label directions; and handling and care of livestock; are covered. The site is designed to complement the Quality Assurance: Strengthening the Chain of Wholesome Food Production video. The website is interactive and includes a quiz, certificate of completion, and links to other sites. The site is supported by California Department of Education, Department of Food and Agriculture, and the Western Fairs Association.

Top | Audiovisuals | Books, Proceedings, Bibliographies, Articles | Organizations | Websites | Additional Links

Additional Links

4-H Focus
http://www.ets.uidaho.edu/4-h/

4-H Horse References - Revised April 1997
http://www.das.psu.edu/extension/4-HHorse/

4-H in the USA
http://www.4h-usa.org/
Animal Behavior and Welfare Sites
http://www.erols.com/mandtj/

Animal Science Nutrition Education Site (Kid's Page)
http://asnet.tamu.edu/www/kids/index.htm

Animal Rights - descriptions of many sites along with a grade level rating for content
http://www.studyweb.com/animals/anirite2.htm

Applied Ethology Home Page
http://www.usask.ca/wcvm/herdmed/applied-ethology/

Dairy Bull Calves - Where Do They Go?
http://www.dqacenter.org/quest/96/oct965.htm

Breeds of Livestock
http://www.ansi.okstate.edu/breeds/

Center for Veterinary Medicine (CVM) - regulates the manufacture and distribution of drugs and feed additives intended for animal use
http://www.fda.gov/cvm/

Digital Librarian - general web searching
http://www.digital-librarian.com

Federation of Animal Science Society (FASS)
http://www.fass.org

Goodwin Educational Video
http://home1.gte.net/jgood1/

House Rabbit Society Home Page and Rabbit Care Guide
http://www.rabbit.org/

Humane Society of the United States (HSUS) Recommended Humane Standards for Raising Livestock and Poultry
http://www.eap.mcgill.ca/LP AU_1.htm

Institute of Laboratory Animal Resources: Principles and Guidelines for the Use of Animals in Precollege Education
http://www2.nas.edu/ilarhome/23da.html

Journal of Extension
http://www.joe.org/

Livestock Section of WWW Virtual Library
http://www.ansi.okstate.edu/library

Livestock Section of WWW Virtual Library for Youth
http://www.ansi.okstate.edu/library/youth.html

National Agricultural Statistics Service: Home Page
http://www.usda.gov/nass/

National FFA Organization
http://www.ffa.org

Search Amazon.Com Books for Books
http://www.amazon.com
Animal Welfare and Ethics Resources for Youth and College Agricultural Educators

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