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Animal Welfare and Ethics Resources for Youth and College Agricultural Educators

February 1999



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Department of
Agriculture



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Animal Welfare and Ethics Resources for Youth and College Agricultural Educators

February 1999

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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

The following list of audiovisuals was excerpted from the AWIC publication: **Audiovisuals Relating to Animal Care, Use, and Welfare**, *AWIC Series No. 96-01*, by J.A. Larson and D.J.B. Jensen (1996). 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 <http://www.nal.usda.gov/awic/pubs/awic9601.htm>

Audiovisuals listed below are available for loan from of the National Agricultural Library (NAL). NAL lending policies and other loan information can be obtained from the Document Delivery Services Branch at <http://www.nal.usda/ddsdb/> or e-mail: ddshead@nal.usda.gov or phone (301) 504-5755. Many animal related videos are available for purchase by contacting publishers and/ or sponsoring organizations directly as well.

General

1

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

Keyword: 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.

2

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

Keyword: 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.

3

Animal Care, Use, and Ethics [videocassette series]. College Station, TX: Instructional Materials Service, Texas A&M University.

Keyword: Livestock ethics, youth programs, unethical practices, welfare.

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

Animal Care, Use, and Ethics (continued)

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: strengthening the chain of wholesome food production.

1997c, 15 min. +1 facilitator guide.

Note: 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, and Western Fairs Association, available on the internet at <http://www.fairsnet.org/quality/index.htm>

NAL Call No.: In progress.

4

Animal Care and Use: Policy Issues in the 1990's [videocassette]. Katie McCabe; c1989; 1/2" VHS, 40 min.

Keyword: 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.

5

Animal Welfare Information Center: Resources Today for the Research of Tomorrow [videocassette]. Washington, DC: Video & Teleconference Division, USDA; 1989; 1/2" VHS, 11 min. 37 sec.

Keyword: 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.

6

Animal Welfare: The Farmers' Story [videocassette]. Park Ridge, IL: The American Farm Bureau Federation; c1981; 1/2" VHS, 3/4 U-Matic, 28 min. 30 sec.

Keyword: 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.

7

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.

Keyword: 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.

8

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

Keyword: 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.

9

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.

Keyword: 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.

10

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

Keyword: 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.

11

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

Keyword: 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.

12

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.

Keyword: 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.

13

Food Safety and Animal Drugs: Testing, Testing, Testing [videocassette]. Alexandria, VA: Animal Health Institute; c1992; 1/2" VHS, 11 min., 42 sec; Includes 1 brochure.

Keyword: 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.

14

Handling Livestock Naturally [videocassette] Kansas City, Mo.: AgriBase, c1989; 1/2" VHS, 15 min.

Keyword: 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.

15

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

Keyword: Transportation, humane slaughter, animal welfare.

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

NAL Call No: Videocassette No. 1306.

16

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.

Keyword: 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. Cooperative grant with Purdue University."

NAL Call No.: Videocassette No. 1542.

17

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

Keyword: 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

18

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

Keyword: 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.

19

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

Keyword: 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.

20

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.

Keyword: Cattle parturition, birthing.

Note: Basics management of the calving process. Descriptions of needed equipment and basic techniques are discussed.

NAL Call No.: Videocassette No. 1440.

21

Cow Handling [videocassette]. Davis, CA: University of California; c1980; U-Matic 3/4", 19 min. (Vol. 1), 40 min. (Vol. 2).

Keyword: 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.

22

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

Keyword: Dehorning, cattle, techniques, horns, physiology, purpose, animal welfare.

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

NAL Call No: Videocassette No. 844.

23

Modern Veal Production: A Mixture of Technology and the Family Farm

[videocassette]. American Veal Association: Freemont, WI; c1987; 1/2" VHS, 9 min.

Keyword: 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.

24

Understanding Dairy Cattle Behavior to Improve Handling & Production

[videorecording]. Bowling Green, KY: Livestock Conservation Institute; c1992; 1/2", 24 min.

Keyword: 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.

25

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

Keyword: 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.

26

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

Keyword: 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: In progress.

Horses

27

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

Keyword: 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.

28

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.

Keyword: 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.

29

Beating Muscle Injuries in Horses [videocassette]. West Bath, ME: Diamond Video Productions; c1981; 1/2" VHS, 72 min.

Keyword: Wounds and injuries, physiological aspects.

Note: Care and prevention of equine muscle injuries is detailed by the author Jack Meagher.

NAL Call No.: Videocassette No. 1934.

30

Breaking Yearlings [videocassette]. Lexington, KY: Blood-Horse Productions; c1985; 1/2" VHS, 38 min.

Keyword: 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.

31

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

Keyword: 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.

32

Do More With Your Horse Naturally [videocassette]. Pasoga Springs, CO: Parelli Natural Horse-Man-Ship; c1994; 1/2" VHS, 20 min.

Keyword: Horseback riding, human-horse relationship, bareback and bridleless.

Note: Pat Parelli and students show how horse and rider can work in harmony without mechanical devices or restraint. This inspirational tape features bareback and bridleless riding.

NAL Call No.: In progress.

33

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

Keyword: 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.

34

Fancy Footwork. Horseowner's Guide to Sound Shoeing Practices [videocassette]. Publisher Equalign; c1992; 1/2" VHS, 60 min.

Keyword: Horseshoeing.

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.

35

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

Keyword: 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.

36

Foaling Fundamentals: A Video Handbook for Healthy Foaling [videorecording]. Virginia City, NV: Video Velocity; c1989; 1/2" VHS, 52 min. Includes a guide book.

Keyword: 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.

37

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

Keyword: 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.

38

Imprint Training the Foal East Rutherford, N.J.: Thousand Oaks, Calif.: Palomine Productions; c1985; 1/2" VHS, 60 min.

Keyword: Foal behavior, imprinting, psychology.

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

NAL Call No.: Videocassette No.1902.

39

The Seven Games [videocassette]. Pasoga Springs, CO: Parelli Natural Horse-Man-Ship; c1995; 1/2" VHS, 1 hour and 48 min.

Keyword: Prey animal behavior, ground techniques, play.

Note: Trainer Pat Parelli discusses the basics of Natural Horse-Man-Ship philosophy. A philosophy based on an understanding of the horse's natural behaviors and applying this knowledge to training techniques. Pat demonstrates step by step "seven games" that can be played with a horse on the ground to achieve respect, impulsion, and flexion.

NAL Call No.: In progress.

40

Ttouch for Horses La Quinta, CA: Thane Marketing International; c1993; 1/2 " VHS, 47 min.

Keyword: 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

41

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

Keyword: 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.

Rabbits

42

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.

Keyword: 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.

Sheep

43

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

Keyword: Lambs, post natal care.

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

NAL Call No.: Videocassette No. 1937.

Swine

44

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

Keyword: 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.

45

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

Keyword: 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.

Books, Proceedings, Bibliographies and Articles

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 <http://www.nal.usda/ddsdb/> for policies and lending guidelines. Or e-mail: ddshead@nal.usda.gov or phone (301) 504-5755 for further questions regarding lending.

General

Allen, Tim (1996). **Codes of Practice and International Guidelines on Farm Animal Welfare.** *Fact Sheet*, Animal Welfare Information Center, USDA, NAL, Beltsville, MD, 9p. Descriptors: fact sheet, bibliography, lists documents containing codes of practice for swine, dairy, horses, deer, animals used in schools, and rodeos.

Appleby, M.C. and B.O. Hughes (1997). *Animal Welfare* CAB International, New York, NY, 316p.

NAL call number: HV4711 A587 1997

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

Cheeke, P. R. (1999). *Contemporary Issues in Animal Agriculture* Interstate Publishers, Inc., PO Danville, IL, 321p., ISBN: 0-8134-3150-6

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

Cregier, S.E. (1989). *Farm Animal Ethology: A Source Book* Captus Press: Ontario, Canada, 213p.

NAL call number: SF81 C73

Descriptors: study of farm animal behavior and welfare, directory, journal listing, funding sources, academia, audiovisuals, conferences, books, reviews,

Duncan, I.J.H. (Jan.-Mar. 1993). **The science of animal well-being.** *Animal Welfare Information Newsletter* 4(1):1,4-7, ISSN: 1050-561X.

NAL call number: aHV4701 A952

Descriptors: keynote address, defining welfare, research, case histories, poultry, cattle.

Federation of Animal Science Societies (January 1999). *Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching* First Revised Edition, Federation of Animal Science Societies (FASS): Savoy, IL. 90p.

NAL call number: In progress

Descriptors: policies, guidelines, husbandry, care, welfare, livestock, cattle, horses, poultry, goats, swine, veal calves.

Fraser, A.F. and D.M. Broom (April 1997). *Farm Animal Behaviour and Welfare* 3rd ed., CAB Intl, ISBN: 0851991602

Descriptors: housing, reproductive behavior, aggression, dominance.

Grandin, Temple (1998). *Genetics and the Behavior of Domestic Animals* Academic Press: San Diego, CA, 356p.

NAL call number: SF756.7 G46 1998

Descriptors: behavioral genetics, animal science, animal domestication, fear, handling, restraint, herding, reproductive behavior.

Hemsworth, Paul H. and Grahame J. Coleman, (1998). *Human-Livestock Interactions the Stockperson and the Productivity and Welfare of Intensively Farmed Animals* CAB International, New York, NY, 152 p.

NAL call number: HV4757.H46 1998

Descriptors: livestock, animal welfare, animal production.

Houpt, Katherine A. (1998). *Domestic Animal Behavior for Veterinarians and Animal Scientists* 3rd ed., Iowa State University Press: Ames, IA, 495p.

NAL call number: SF756.7 H68 1998

Descriptors: aggression, play, reproductive behavior, visual fields, species specific behavior.

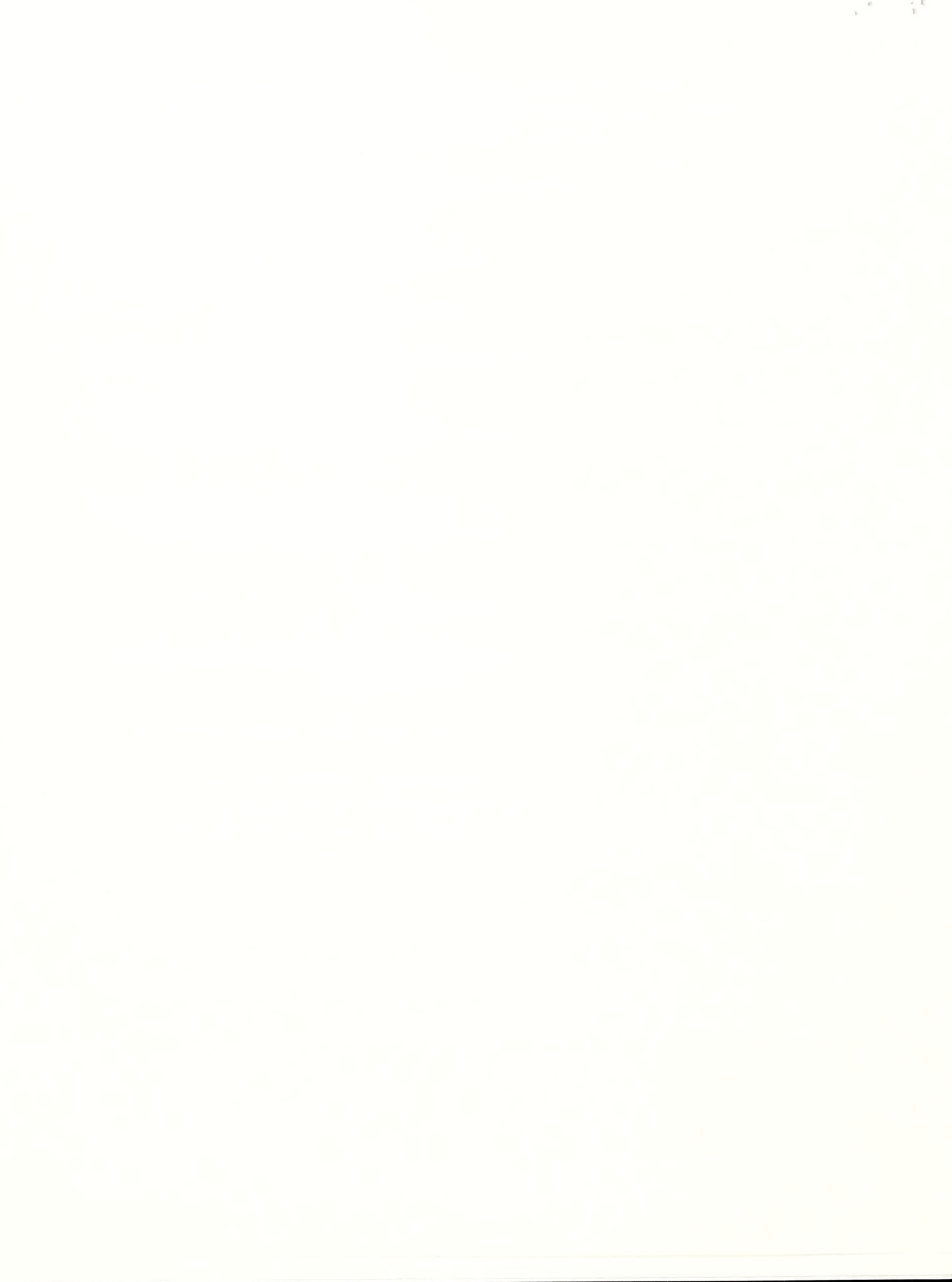
Mench, J.A. and W.R. Stricklin (1993). **An international conference on farm animal welfare: ethical, scientific and technological perspectives. Proceedings of an International Conference held at the Aspen Institute in Queenstown, Maryland in June, 1991.** *Journal of Agricultural and Environmental Ethics* 6 (special supplements 1-2), ISSN: 0893-4282.

NAL call number: BJ52.5.J68

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

Gregory, Neville G. and Temple Grandin (1998). *Animal Welfare and Meat Science* CAB International: New York, ISBN:085199296X

Descriptors: slaughter, methods, facility design, slaughter-houses.



Reynnells, R.D. and B.R. Eastwood (September 1997). *Animal Welfare Issues Compendium: A Collection of 14 Discussion Papers* US Department of Agriculture, Cooperative State Research, Education and Extension Service, Plant and Animal Systems, Washington, DC, 141p.

NAL call number: HV4711 A588 1997

Descriptors: definitions, animal suffering, welfare, shows, livestock species issues, handling, copies currently available from AWIC.

Smith, C.P., V.Taylor, et. al. (1995). **Environmental enrichment information resources for laboratory animals: 1965-1995. Birds, cats, dogs, farm animals, ferrets, rabbits, and rodents.** *AWIC Resource Series No.2*, Animal Welfare Information Center, USDA, NAL, Beltsville, MD, 294p.

NAL call number: aHV4701.A94 no.2

Descriptors: behavior, housing, enrichment devices, social contact.

Stricklin, W.R. and J.A. Mench (Winter 1993). **Oversight of the use of agricultural animals in university teaching and research.** *ILAR news* 36(1):9-14.

NAL call number: QL55 A1I43

Descriptors: livestock, animal experiments, university research, teaching materials, husbandry, welfare.

Reinhardt, V. (1997). *Comfortable Quarters for Laboratory Animals*, 8th ed., Animal Welfare Institute: Washington, DC., 115 p.

NAL call number: SF406.3.C66 1997

Descriptors: environmental enrichment, rabbits, chickens, cattle, sheep, cattle, swine, easy to read, photographs.

Livestock Ethics

Animal Industry Foundation (1995). *Show Animal Care and Handling Guide* Animal Industry Foundation: Arlington, VA, 187p.

NAL call number: SF118.S55 1995

Descriptors: code of ethics, animal welfare, handling and transport.

Coffey, D.M. and Goodwin, J. (August 1995). **Ethics in exhibiting and showing livestock--facing reality.** *The Agricultural Education Magazine* 68 (2): 9-11. ISSN: 0732-4677.

NAL call number: 275.8 Ag8

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

Campbell, M. (August 1995). **Ethical standards: helping students see the light.** *The Agricultural Education Magazine, Inc.* 68(2) 15-16. ISSN: 0732-4677.

NAL call number: 275.8-Ag8

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

Friend, T.H. (1989). **Teaching animal welfare in the land grant universities.** *Journal of Dairy Science* 72(Suppl. 1):595.

NAL call number: 49 J82

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

Goodwin, J. (Fall 1993). **Contrasting viewpoints about controversial issues: Presenting different views on highly charged issues.** *Journal of Extension.* (31):25-27.

NAL call number: 275.28 J82

Descriptors: extension educators, animal rights, animal welfare, educational program.

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*

Descriptors: review of literature, animal rights, animal welfare, extension agents, attitudes.

NAL call number: In progress.

Hartsock, T.G. , J.D. Barrett, G. Davis, C. Schwanke and L.W. Wilson (September 1997).

Animal welfare issues: animal exhibits, shows, and fairs. In: *Animal Welfare Issues Compendium: A Collection of 14 Discussion Papers*, R.D. Reynnells and B.R. Eastwood, eds., US Department of Agriculture, Cooperative State Research, Education and Extension Service, Plant and Animal Systems, Washington, DC, p. 29-33.

NAL call number: HV4711 A588 1997

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

Livestock Conservation Institute (1996). **Second National Youth Livestock Program Ethics Symposium December 6-8, 1996, Dallas-Fort Worth, Texas**, The Institute: Bowling Green, Ky., 175p.

NAL call number: HV4757.N38 1996

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

Livestock Conservation Institute (1995). **Proceedings of the National Youth Livestock Program Ethics Symposium December 1-2, 1995, Las Vegas, Nevada.** The Institute: Bowling Green, Ky., 161p.

NAL call number: HV4757.N38 1995

Descriptors: livestock, animal welfare.

Lund, V. and B. Algers (1995). ***Post graduate teaching in farm animal welfare and ethics.*** Sveriges Lantbruksuniversitet, Veterinaermedicinska Fakulteten, Institutionen foer Husdjurshygien (Sweden); Skara, Sweden, 35 p., ISSN- 0283-0701.

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

McGlone, J.J. and T.A. Hicks (Apr. 1993). **Teaching standard agricultural practices that are known to be painful.** *Journal of Animal Science.* 71(4):1071-1074.

NAL call number: 49 J82

Descriptors: pain, demonstrations, castration, branding, dehorning, ear notching, teeth clipping, beak trimming, comb and wattle removal, and tail docking.

McOrist, S. (1997). **Use of oral antibiotics in farm livestock: facts and ethics.** *Journal of Veterinary Pharmacology and Therapeutics* 20 (Suppl. 1):175, ISSN- 0140-7783.

NAL call number: SF915 J63

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

Murphy, T.E., J.S. Norwood, and R. Dubes (1992). **Unethical fitting and showing practices in junior livestock shows.** *Texas Journal of Agriculture and Natural Resources.* 5:99-106.

NAL call number: S1 T49

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

Pond, R. (1997). ***Livestock Showman's Handbook: A Guide for Raising Animals for Junior Livestock Shows,*** 2nd ed., Pine Forest Pub, 214p., ISBN: 0-9617766-3-3.

Rayfield, F.H., J.H. Hughes, and W.G. Weeks (1997). **Ethics and livestock shows: An educational approach for undergraduates in agricultural education and agricultural professional service.** *Journal of Animal Science* 75(Suppl. 1):2, ISSN: 0021-8812.

NAL call number: 49 J82

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

Rollin, Bernard E. (1995). ***Farm Animal Welfare: Social, Bioethical, and Research Issues*** 1st ed., State University Press: Ames, Iowa, 168 p.

NAL call number: HV4757 R65 1995

Descriptors: livestock industry, research, morality, ethics.

Rollin, B.E. (1996). *The new ethic for animals and the dairy industry. Meeting held on February, 18-21, 1996, Nashville, Tennessee.* The Council: Arlington, Va.

NAL call number: SF967.M3N32

Descriptors: animal welfare, dairy cattle.

Rollin, B. E. (1996). **Rodeo and recollection-applied ethics and western philosophy.**

Journal of the Philosophy of Sport 23:1-9, ISSN: 0094-8705.

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

Rutgers, L.J.E., F.J. Grommers, B.Colenbrander (1996). **Ethical aspects of invasive reproduction techniques in farm animals.** *Reproduction in Domestic Animals* 31(4-5): 651-655, ISSN: 0936-6768.

NAL call number: SF105 A1Z8

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

Rus, D.G. (1997). *Evaluation of Ethics Perceptives in FFA Members* Masters Thesis; College of Agriculture Sciences, Colorado State University.

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

Transport and Handling of Farm Animals

Animal Welfare Advisory Committee (1994). *Code of Recommendation and Minimum Standards for the Welfare of Animals Transported within New Zealand. Code of Animal Welfare No. 15* Ministry of Agriculture and Fisheries: Wellington, New Zealand, 52p.

NAL call number: 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.

Animal Industry Foundation (1995). *Show Animal Care and Handling Guide* Animal Industry Foundation: Arlington, Va, 187p.

NAL call number: SF118.S55 1995

Descriptors: livestock, exhibition, handling, shows.

Berry, D. (May 1994). *Transport and Handling of Livestock and Poultry: January 1984-January 1994. Quick Bibliography Series (94-32)*, National Agricultural Library: Beltsville, Md., 62p.

NAL call number: aZ5071.N3

Descriptors: transport, handling, farm animals, bibliography.

Fowler, M.E. (1995). *Restraint and Handling of Wild and Domestic Animals* Iowa State University Press: Ames, Iowa, 383p.

NAL call number: QL62.5.F68 1995

Descriptors: immobilization, handle, restraint.

Grandin, T. (July 1987). **Animal handling.** *The Veterinary Clinics of North America: Food Animal Practice* 3(2):323-338.

NAL call number: SF601.V535

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

Grandin, T. (Nov. 1990). **Design of loading facilities and holding pens.** *Applied Animal Behaviour Science* 28(1/2):187-201.

NAL call number: QL750.A6

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

Grandin, T. (Feb. 1994). **Farm animal welfare during handling, transport, and slaughter.** *Journal of the American Veterinary Medical Association* 204(3):372-377.

NAL call number: 41.8 Am3

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

Grandin, T. (Fall 1998). **Handling of crippled and nonambulatory livestock.** *Animal Welfare Information Center Bulletin* 9(1-2):1-2,12-13, ISSN: 1050-561X.

NAL call number: aHV4701 A952

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

Grandin, T. (1988). *Livestock Handling Guide* Livestock Conservation Institute: Bowling Green, KY, 15p.

Descriptors: available through the Livestock Conservation Institute, cattle, hogs, sheep, stress, psychology, handling, bruising.

Grandin, T., ed. (1993). *Livestock Handling and Transport* CAB International: Oxon, U.K., 320p.

NAL call number: SF89 L59

Descriptors: handling, management, behavior, restraint.

Grandin, T. (1992). *Livestock Trucking Guide* Livestock Conservation Institute: Bowling Green, KY, 16p.

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

Grandin, T. (1991). *Recommended Animal Handling Guidelines for Meat Packers* American Meat Institute: Arlington, Virginia, 21p.

NAL call number: 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.

Grandin, T. (Oct. 1994). **Solving livestock handling problems.** *Veterinary Medicine* 89(10):989-990, 992-993, 996, 998.

NAL call number: 41.8 M69

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

Harris, T.C., ed. (1996). *AATA Manual for the Transport of Live Animals by Road.* Animal Transportation Association, PO Box 251, Redhill RH1 5FU, U.K.

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

Kettlewell, P.J. and M.A. Mitchell (Mar. 1994). **Catching, handling and loading of poultry for road transportation.** *World's Poultry Science Journal* 50(1):54-56.

NAL call number: 47.8 W89

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

Leadon, D.P. (Sep. 1994). **Studies of the effects of transporting horses: better to arrive than to travel.** *Equine Veterinary Journal* 26(5):346-347.

NAL call number: SF955.E6

Descriptors: horse, transport, orientation, animal welfare.

Ministry of Agriculture, Fisheries, and Food. (1983). **Code of Practice for the Transport by Air of Cattle, Sheep, Pigs, Goats, and Horses** Edinburgh, Scotland, 15p.

NAL call number: SF89 C6

Descriptors: livestock, air transport, animal welfare.

O'Driscoll, J. (1999). **Information Resources for the Transport and Handling of Livestock and Poultry.** *AWIC Resource Series No.4*, Animal Welfare Information Center, USDA, NAL, Beltsville, MD.

NAL Call number: aHV4701.A94-no.4

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

Ragan, J.R. et al. (1992). **Proper Handling Techniques for Non-ambulatory Animals** Livestock Conservation Institute: Madison, Wisconsin, 19p.

NAL Call number: SF140 S33P76

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

Smith, B.L., J.H. Jones, G.P. Carlson, and J.R. Pascoe (Sep. 1994). **Body position and direction preferences in horses during road transport.** *Equine Veterinary Journal* 26(5):374-377.

NAL call number: SF955.E6

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

Livestock

Cattle

Albright, J. L. and C.W. Arave (1997). *The Behaviour of Cattle* CAB International: Wallingford, UK ; New York, 306 p., ISBN:0851991963

NAL call number: SF202.5 A43 1997

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

Alleman, J. (Chairperson) (1994). *Guide for the Care and Production of Veal Calves*

American Veal Association: Rice Lake, Wisconsin, 28p.

NAL call number: SF205 G85 1994

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

Apple, K., R.L. Huhnke, and S. Harp (Feb. 1995). *Modern Corral Design*. Oklahoma State University: Stillwater, Okla.: The Service Circular E-938, 58p.

NAL call number: 275.29 Ok41C

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

Arave, C.W. and J.L. Albright (Fall 1998). **Animal welfare issues: dairy.** *Animal Welfare Information Center Bulletin* 9(1-2):1-2,12-13, ISSN: 1050-561X.

NAL call number: aHV4701 A952

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

Berry, D.J. (1993). **Housing, husbandry, and welfare of beef cattle: January 1980 - November 1992.** *Quick Bibliography Series* U.S. Department of Agriculture, National Agricultural Library: Beltsville, MD, 46p.

NAL call number: aZ5071.N3 no. 93-07

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

Berry, D.J. (1993). **Housing, husbandry, and welfare of dairy cattle: January 1982 - August 1993.** *Quick Bibliography Series* U.S. Department of Agriculture, National Agricultural Library: Beltsville, MD, 52p.

NAL call number: aZ5071.N3 no. 93-58

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

Berry, D.J. (1992). **Veal Calves: January 1979 - August 1992.** *Quick Bibliography Series* U.S. Department of Agriculture, National Agricultural Library: Beltsville, MD, 49p.

NAL call number: aZ5071.N3 no. 92-67

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

Epperson, B. and D. Zalesky, D. (Aug. 1995). ***Effects of High Heat and Humidity on Reproduction in Cattle*** South Dakota State University: Brookings, So. Dak.: Cooperative Extension Service: Extension Extra (2018), 2 p.

NAL call number: S544.3.S8E9

Descriptors: humidity, fertility, husbandry, synchronization, bulls, cows, heat stress.

Grandin, T. (1994). ***Beef Cattle Behavior, Handling, and Facilities Design Book*** Fort Collins: Colorado.

NAL call number: in progress

Descriptors: corral design, pens, handling, sorting, loading, gates.

Grandin, T. (1991). **Cattle behavior during handling and corral design for beef cow herds.** *Extension Bulletin E* Cooperative Extension Service, Michigan State University: East Lansing, Michigan, 10p.

NAL call number: 275.29 M58B

Descriptors: cows, cattle, fencing, behavior, vision, movement.

Grandin, T. (1987). **Using cattle psychology to aid handling.** *Agri-Practice* 8(5):32-36.

NAL call number: SF601.B6

Descriptors: cattle, handling, behavior, perception, stress, guidelines.

Heerens, S.E. (Aug. 1989). **Confinement rearing of calves.** [Letter] *Journal of the American Veterinary Association* 195(4):423.

NAL call number: 41.8 AM3

Descriptors: housing, husbandry, pathogen transmission.

Hinch, G.N. (1994). **The behavioural and physiological assessment of well-being, pain and distress in sheep and cattle.** In: *Improving the Well-being of Animals in the Research Environment: Proceedings of the conference held at the Marriott Hotel, Sydney, October, 1993* R.M. Baker, G. Jenkin, and D.J. Meller, eds., ANZCCART, P.O. Box 19, Glen Osmond, SA, 5064, Australia, pp. 35-40.

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

Jensen, D.J.B. (1995). **Housing, husbandry, and welfare of beef cattle: January 1985-March 1995.** *Quick Bibliography* 95-16. Animal Welfare Information Center, National Agricultural Library, Beltsville, Md., 99p.

NAL call number: aZ5071.N3

Descriptors: cattle, husbandry, welfare, bibliography.

Jensen, D.J.B. (Mar. 1995). **Housing, husbandry, and welfare of dairy cattle: January 1985-March 1995.** *Quick Bibliography Series 91-15.* Animal Welfare Information Center, National Agricultural Library: Beltsville, Md., 99p.

NAL call number: aZ5071.N3

Descriptors: dairy, animal welfare, housing, husbandry.

Seabrook, M.F. (1984). **The psychological interaction between the stockman and his animals and its influence on performance of pigs and dairy cows.** *Veterinary Record* 115:84-87.

NAL call number: 41.8 V641

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

Stull, C. et al, ed. (1993). **Animal Care Series: Dairy Care Practices** University of California Cooperative Extension Service and the Dairy Workgroup, 48p.

NAL call number: SF196 U6D35 1993

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

Stull, C.L. and D.A. McMartin (Jan. 1992). **Welfare Parameters in Veal Calf Production Facilities. Prepared for California Legislature** Cooperative Extension Service, University of California School of Veterinary Medicine: Davis, Calif., 31p.

NAL call number: SF206 S87 1992

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

Thomas, H.S. (1997). **Your Calf: A Kid's Guide to Raising and Showing Beef and Dairy Calves** Storey Comm Inc, 192p., ISBN: 0-88266-947-8

Descriptors: feeding, grooming, handling.

Horses

Blackshaw, J.K., D. Kirk, and S.E. Cregier (Apr./Jun. 1983). **A different approach to horse handling, based on the Jeffery method.** *International Journal for the Study of Animal Problems* 4(2):117-123.

NAL call number: HV4701.I49

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

Calvin N. Kobluk, C.N., T.R. Ames, and R.J. Geor, eds. (1995). **The Horse: Diseases and Clinical Management** W.B. Saunders: Philadelphia, Penn. 1335p.

NAL call number: SF951.H78 1995

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

Fraser, A.F. (1992). **The behaviour of the horse** Wallingford, Oxon, Ox, UK: CAB International, 288 p., ISBN: 0851987850

NAL call number: SF281 F72 1992

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

Freeman, D. (Oct./Dec. 1995). **Individual management key--part of sound horse growth.** *OSU Equine News*, Cooperative Extension Service, Department of Animal Science: Stillwater, Okla., pp. 1-2.

NAL call number: SF277.O88

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

Haupt, K.A. (Winter 1987). **Equine behavior problems in relation to humane care.** *Anthrozoos* 1(3):184-187.

NAL call number: SF411.A57

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

Jordan, R.M. (1990). **Horse Care and Management** Publication no. AG-BU-0484, University of Minnesota, Department of Animal Science, Minnesota Extension Service, 20p.

NAL call number: SF285 J67 1990

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

Hayes, Karen E.N. (1995). **Emergency! The Active Horseman's Book of Emergency Care** Half Halt Press: Boonsboro, Md., 213p.

NAL call number: SF951.H325 1995

Descriptors: care, emergencies, First aid.

Hill, Cherry (1997). **Horse Health Care a Step-By-Step Photographic Guide to Mastering over 100 Horsekeeping Skills** Storey Communications: Pownal, VT, 151 p.

NAL call number: SF285.3.H54 1997

Descriptors: care, feeding, grooming.

Miller, Robert M. and Pat Close (1991). **Imprint Training of the Newborn Foal** Western Horseman: Colorado Springs, CO, 141 p.

Descriptors: foal behavior, shaping, imprinting, psychology, methods.

NAL call number: SF287 M58 1991

Parelli, Pat., K. Kadash and K. Parelli (1993). **Natural Horse-Man-Ship** Western Horseman, ISBN:0911647279.

NAL call number: In progress.

Descriptors: prey animal psychology, behavior, horse/human relationship, humane training techniques, safe horse handling.

Smith, C.P. and D.J.B. Jensen (1995). **Housing, husbandry, and welfare of horses: January 1988-July 1995.** *Quick Bibliography Series 95-20*, National Agricultural Library: Beltsville, Md., 62p.

NAL call number: aZ5071.N3

Descriptors: housing, husbandry, behavior, welfare, bibliography.

Smith, C.P. (1994). **Housing, husbandry, and welfare of horses: January 1988-January 1994.** *Quick Bibliography Series 94-22*, U.S. Department of Agriculture, National Agricultural Library: Beltsville, MD, 62p.

NAL call number: aZ5071.N3 no.94-22

Descriptors: bibliography, flooring, stress, housing design, ventilation, temperature control, transport, social environment.

Poultry

Appleby, Michael C., Barry O. Hughes, and Arnold H. Elson (1992). ***Poultry Production Systems: Behaviour, Management and Welfare*** C.A.B International: Oxon, U.K., 238p..

NAL call number: SF487 A77 1992

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

Appleby, M.C. and S.F. Smith (1991). **Design of nest boxes for laying cages.** *British Poultry Science* 32(4):667-678.

NAL call number: 47.8 B77

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

Canadian Federation of Humane Societies, Coordinator (1990). ***Recommended Code of Practice for the Care and Handling of Poultry from Hatchery to Processing Plant.***

Publication 1757/E. Agriculture Canada: Ottawa, Ontario, Canada, 54p.

NAL call number: 7 C16Pu 1757/E.

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

Church, J.S., T. Tennessen, and A.B. Webster (1992). **Environmental enrichment influences on body weight, feathering, foot condition and behaviour of caged white leghorn hens.** *Journal of Animal Science* 70(Suppl. 1):175.

NAL call number: 49 J82

Descriptors: fear, stress, battery cages, cage enrichment, cage, hens, body weight, behavior.

Gordon, S.H. (1992). **The effect of broiler stocking density on bird welfare and performance.** *British Poultry Science* 33(5):1120-1121.

NAL call number: 47.8 B77

Descriptors: housing, substrate, flock management, production, broilers, welfare.

Hulet, R.M., D.M. Denbow, and R.W. Manley (1991). **Effect of bird density on growth performance of cage-brooded male and female turkeys.** *Poultry Science* 70(Suppl. 1):54.

NAL call number: 47.8 AM33P

Descriptors: group size, body weight, industry, turkeys, cage.

Klober, K. (Jun. 1995). **Loose housing for poultry.** *Small Farm Today* 12(3):24-25.

NAL call number: S1.M57

Descriptors: housing, small farms.

Kreger, M.D. (Feb. 1995). **Housing, husbandry, and welfare of poultry: January 1992-January 1995.** *Quick Bibliography Series (95-05)*, National Agricultural Library: Beltsville, Md., 74p.

NAL call number: aZ5071.N3

Descriptors: poultry, housing, husbandry, welfare, bibliography.

Kreger, M.D. (1994). **Housing, husbandry, and welfare of poultry, January 1991-January 1994.** *Quick Bibliography Series 94-26* U.S. Department of Agriculture, National Agricultural Library: Beltsville, MD, 30p.

NAL call number: aZ5071.N3

Descriptors: husbandry, bibliography, housing, behavior, physiology.

Kreger, M.D. (1994). **Housing, husbandry, and welfare of selected birds (quail, pheasant, finches, ostrich, dove, parrot), December 1980-December 1993.** *Quick Bibliography Series 94-26* U.S. Department of Agriculture, National Agricultural Library: Beltsville, MD, 30p.

NAL call number: aZ5071.N3

Descriptors: husbandry, bibliography, housing, behavior, physiology.

Poultry Science Association and R.D. Reynnells. (October 1998)). ***Poultry Science Resource List and Rabbit Resource List*** Savoy, IL. (copies currently available from AWIC).

NAL call number: SF481.25 P68

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

Rabbits

Allen, Tim (1994) **Housing, husbandry and welfare of rabbits.** *Quick Bibliography Series 94-16*, U.S. Department of Agriculture, National Agricultural Library: Beltsville, MD, 45p.
NAL call number: aZ5071.N3 no.94-16
Descriptors: welfare, feeding, housing, social groups, environmental enrichment.

Batchelor, G.R. (Aug. 1991). **Group housing on floor pens and environmental enrichment in sandy lop rabbits. I.** *Animal Technology: Journal of the Institute of Animal Technicians* 42(2):109-120.
NAL call number: QL55.I5
Descriptors: social groups, solitary housing, space, behavior, environmental enrichment, group housing.

Brooks, D.L., W. Huls, C. Leamon, J. Thomson, J. Parker, and S. Twomey (May 1993). **Cage enrichment for female New Zealand White rabbits.** *Lab Animal* 22(5):30-38.
NAL call number: QL55 A1L33
Descriptors: paired housing, single housing, enrichment objects, behavior, social contact.

Harkness, J.E. (1988). **Rabbit behavior as related to environmental stress.** *Journal of Applied Rabbit Research* 11(3):227-236.
NAL call number: QL737 L32J6
Descriptors: ambient temperature, photoperiod, spatial needs, stress, social behavior, acoustic environment.

Morton, D.B., M. Jennings, G.R. Batchelor, D. Bell, L. Birke, K. Davies, J.R. Eveleigh, D. Gunn, M. Heath, B. Howard, P. Koder, J. Phillips, T. Poole, A.W. Sainsbury, G.D. Sales, D.J.A. Smith, M. Stauffacher, and R.J. Turner (Oct. 1993). **Refinements in rabbit husbandry: Second report of the BVAAWF/FRAME/RSPCA/UFAW Joint working group on refinement.** *Laboratory Animals* 27(4):301-329.
NAL call number: 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 currently available from AWIC).
NAL call number: SF481.25 P68
Descriptors: university, commodity group, and government contacts, experts listed by state and area of interest.

Swanson, J.C. and J.I. McNitt (September 1997) **Rabbits**. In: *Animal Welfare Issues Compendium: A Collection of 14 Discussion Papers*, R.D. Reynnells and B.R. Eastwood, eds., US Department of Agriculture, Cooperative State Research, Education and Extension Service, Plant and Animal Systems, Washington, DC, p. 108-117.

NAL call number: HV4711 A588 1997

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

Sheep and Goats

Berry, D. (1994). **Housing, husbandry, and welfare of sheep and goats: January 1985-April 1994**. *Quick Bibliography Series* U.S. Department of Agriculture, National Agricultural Library: Beltsville, MD, 30p.

NAL call number: aZ5071.N3 no.94-36

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

Boldrick, L. and L. Hale (1996). *Pygmy Goats Management and Veterinary Care* All Pub., Orange, CA, 237 p.

NAL call number: SF386.P94B65 1996

Descriptors: care, husbandry, health.

Gonyou, H.W. (Sep. 1997). **Sheep and goats**. In: *Animal Welfare Issues Compendium: A Collection of 14 Discussion Papers*, R.D. Reynnells and B.R. Eastwood, eds., US Department of Agriculture, Cooperative State Research, Education and Extension Service, Plant and Animal Systems, Washington, DC, p. 118-124.

NAL call number: HV4711 A588 1997

Descriptors: personnel, facilities, shearing, dogs, castration, tail-docking, lambing, fostering.

Gonyou, H.W. (Oct. 1991). **Behavioral methods to answer questions about sheep**. *Journal of Animal Science* 69(10):4155-4160.

NAL call number: 49 J82

Descriptors: preference testing, aversiveness, spatial behavior, social behavior.

Hargreaves, A.L. and G.D. Hutson (May 1990). **The effect of gentling on heart rate, flight distance and aversion of sheep to a handling procedure**. *Applied Animal Behaviour Science* 26(3):243-252.

NAL call number: QL750.A6

Descriptors: handling, fear, heart rate, stress.

Hemsworth, P.H., J.L. Barnett, and G.J. Coleman (1993). **The human-animal relationship in agriculture and its consequences for the animal**. *Animal Welfare* 2(1):33-51.

NAL call number: HV4701.A557

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

Swine

Allen, T. (March 1994). **Housing, husbandry, and welfare of swine: January 1991-January 1995.** *Quick Bibliography Series (94-14)*, National Agricultural Library: Beltsville, Md.

NAL call number: aZ5071.N3 no.94-14

Descriptors: welfare, husbandry, housing, bibliography.

Batchelor, G.R. (1991). **Environmental enrichment for the laboratory pig.** *Animal Technology* 42(3):185-189.

NAL call number: QL55.I5

Descriptors: toys, social interaction, human-animal bond.

Broom, D.M., M.T. Mendl, and A.J. Zanella (Oct. 1995). **A comparison of the welfare of sows in different housing conditions.** *Animal Science: An International Journal of Fundamental and Applied Research* 61(pt.2):369-385.

NAL call number: SF1.A56

Descriptors: sows, group size, housing, social behavior, animal welfare.

Christianson, L.L., D.P. Bane, et al. (Mar. 1990). **Swine Care Handbook for Producers Using Environmentally Controlled Housing** National Pork Producers Council: Des Moines, Iowa, 24p.

NAL call number: SF 396.3 S88

Descriptors: swine, husbandry systems, management, transportation, environmental control, noise, facilities, equipment, health care.

Cooperative Extension Service (1976-1993). **Pork Industry Handbook** Purdue University: West Lafayette, Ind., 450p.

NAL call numbers: SF395 P62

Descriptors: production systems, breeding, genetics, reproduction, nutrition, management, housing, manure management, herd health, marketing, pork quality.

Farley, J.L., et al. (1991). **Animal Care Series: Swine Care Practices** University of California Cooperative Service and California Pork Industry Group, 18p.

NAL call number: SF395 S92

Descriptors: disease, management, newborn pigs, breeding, nutrition, housing, transportation.

Gonyou, H.W., P.H. Hemsworth, and J.L. Barnett (1986). **Effects of frequent interactions with humans on growing pigs.** *Applied Animal Behaviour Science* 15(4):303-314.

NAL call number: QL750 A6

Descriptors: corticosteroids, chronic stress, reproductive effects, handling.

Grandin, T. (1996). *Handling Pigs* Livestock Conservation Institute: Bowling Green, KY, 12p.

Descriptors: available through the Livestock Conservation Institute, behavior, swine, mixing, fighting, loading, lighting, chute design, trucking, bruising.

Kreger, M. (Feb. 1995). **Housing, husbandry, and welfare of swine: January 1991-January 1995.** *Quick Bibliography Series (95-06)*, National Agricultural Library: Beltsville, Md., 84p.

NAL call number: aZ5071.N3

Descriptors: welfare, husbandry, housing, bibliography.

McFarlane, A. and G. McFarlane (1996). *Pig Keeping on a Small Scale* Kenthurst, NSW, Australia: Kangaroo Press, 72p., ISBN: 0-86417-790-9.

NAL call number: SF395.M43 1996

Descriptors: production, nutrition, housing.

McGlone, J.J. (June 26, 1995). **Facility design should correspond to animal behavior.** *Feedstuffs* 67(26): 12-16, 21, ISSN:0014-9624.

NAL call number: 286.81 F322

Descriptors: social behavior, pen design, dominance.

McGlone, J.J., R.I. Nicholson, J.M. Hellman, and D.N. Herzog (June 1993). **The development of pain in young pigs associated with castration and attempts to prevent castration-induced behavioral changes.** *Journal of Animal Science* 71(6):1441-1446, ISSN:0021-8812.

NAL call number: 49 J82

Descriptors: reduced suckling, reduced standing, increased lying times, weaning weights, and mortality, analgesics.

Swanson, J.C. (1990). **Welfare, care and husbandry of swine: January 1979-August 1990.** *Quick Bibliography Series* U.S. Department of Agriculture, National Agricultural Library: Beltsville, MD, 20p.

NAL call number: aZ5071.N3 no.91-14

Descriptors: bibliography, behavior, handling, transport, slaughter, housing.

Swanson, J.C. (1990). **Swine housing and facilities: January 1985-August 1990.** *Quick Bibliography Series* U.S. Department of Agriculture, National Agricultural Library: Beltsville, MD, 30p.

NAL call number: aZ5071.N3 no.91-15

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

Organizations

Veterinary and animal producer organizations often provide brochures, manuals, audiovisuals, and contact listings. A selected list of organizations are listed below.

American Association for Laboratory Animal Science (AALAS)

70 Timber Creek Dr., Suite 5

Cordova, TN 38018

Tel: (901) 754-8620, Fax: (901) 753-0046, Email: info@aalas.org

WWW: <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/>

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@assoqhq.org

WWW: <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: ARBAMAIL@AOL.COM

WWW: <http://members.aol.com/arbanet/arba/web/>

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 fancy. ARBA offers books for sale on husbandry, show standards, and more.

American Society of Animal Science

111 North Dunlap Avenue

Savoy, Illinois 61874

Tel. (217) 356-3182, Fax: (217) 398-4119, E-mail: asas@assoqhq.org

WWW: <http://www.asas.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

1931 N. Meacham Rd., Suite 100

Schaumburg, IL 60173-4360

Tel: (847) 925-8070, Fax: (847) 925-1329, E-mail: 73711.555@compuserve.com

WWW: <http://www.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 Welfare Information Center

National Agricultural Library

10301 Baltimore Blvd.

Beltsville, MD 20705

Tel: (301) 504-6212, Fax: (301) 504-7125, Email: awic@nal.usda.gov

<http://www.nal.usda.gov/awic>

The Animal Welfare Information Center (AWIC) of the U.S. Department of Agriculture 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 Newsletter* 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 for Protection from Research Risks, Animal and Plant Health Inspection Service/Animal Care, and NetVet.

Livestock Conservation Institute

1910 Lyda Dr.

Bowling Green, KY 42104-5809

Tel: (502) 782-9798, Fax: (502) 782-0188, E-mail: lci@premier.net

WWW: <http://www.lcionline.org/>

The Livestock Conservation Institute (LCI) is an umbrella organization of producers, veterinarians, processors, corporations, and commodity organizations that advocates programs that improve animal health, care, and food safety. LCI 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 LCI.

The LCI homepage provides a link to the National Livestock Ethics Council (NLEC) whose function is to engage in activities designed to promote educational initiatives, industry standards, enforcement codes and quality assurance related to animal agriculture. Information contained on the NLEC homepage page includes links to: ethics and quality assurance resources for animal agriculture; International Association of Fairs and Expositions (IAFE); National Code of Show Ring Ethics; Livestock Show Ethics and Food Animal Quality Assurance Education Tool Kit; and more. Visit this site directly at <http://www.lcionline.org/nlec/index.html>

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
<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 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, Email: psa@assoqh.org
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 info via the Poultry Science Virtual Library at <http://posc.tamu.edu/library/dother.html> Links are included to information on management, health, and breeds.

Websites

Website addresses change periodically. The list below is current as of January 1999.

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 by 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.

AgNIC Animal Science Home Page

[agnic http://www.lib.iastate.edu/agnic/agnic.html](http://www.lib.iastate.edu/agnic/agnic.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>

<http://www.reeusda.gov/>

Cow Stress and Well-being Publications

<http://www.inform.umd.edu/EdRes/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

Email: pdic@btinternet.com

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, U.K.
UK Tel: 01954-780695 UK Fax: 01954-780235
International fax:+44-1954-780235 or +44-1954-780568
Company Email: 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 compliment 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.

Additional Links

(links were accessed in January 1999)

4-H Focus <http://www.uidaho.edu/ag/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 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/>

Instructional Materials for Agriculture: Animal Husbandry
<http://www.omgsic.com/agintro.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/>

Character Counts! In 4-H

<http://www.agnr.umd.edu/CES/4h/update/February/ccounts.htm>

Digital Librarian- general web searching

<http://www.servtech.com/public/mvmail/>

FASFAS Issue Teams <http://www.arpas.uiuc.edu/FASFAS/issueteam.html>

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

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

HSUS Recommended humane standards for raising livestock and poultry

http://www.eap.mcgill.ca/LPAW_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>

Instructional Materials and Inservice Workshops: National Council for Agricultural Education

<http://www.agriculture.com/contents/FFA/partners/council/>

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

Kid's page <http://asnet.tamu.edu/www/kids/index.htm>

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

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

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

Search Amazon.Com Books for Book

<http://www.metrowire.com/roanoke/9enter/bsearch.htm>

Systems Approach to Livestock Evaluation is Ethical and Practical

<http://info.ag.uidaho.edu/AgKnowledge/agknowledge56.htm>

Ten Commandments for Show Ring Parents

<http://www.agnr.umd.edu/CES/4H/update/july/Update5.htm>

United States National Dairy Database Main Menu
<http://www.inform.umd.edu:8080/EdRes/Topic/AgrEnv/ndd/>

WWW Library - Livestock Section (Youth) <http://www.ansi.okstate.edu/library/youth.html>

NATIONAL AGRICULTURAL LIBRARY



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