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Animal Welfare
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Selected Readings on the History and Use of Old Livestock Breeds

September 1991

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Introduction

For centuries animals have worked with and for people. Cattle, goats, sheep, pigs, poultry and other livestock have been an essential part of agriculture and our history as a nation. With the change of agriculture from a way of life to a successful industry, we are losing our agricultural roots. Although we descend from a nation of farmers, few of us can name more than a handful of livestock breeds that are important to our production of food and fiber. The variety of breeds represents genetic diversity: a priceless inheritance from our ancestors. Genetic diversity is an important resource that is necessary for the successful adaptation of our livestock to meet the unpredictable needs of our future.

The American Minor Breeds Conservancy (AMBC) has sponsored an art exhibit, *The Art of American Livestock Breeding*, to recognize the role of livestock breeds in the success of American livestock production. The exhibit is about the cultural richness of our livestock heritage. The paintings convey America's historic relationship with the land, our pride in breeding excellent livestock, and our love of the natural world. The paintings also serve as a record of the development of a breed and its function, as well as providing documentation of early pedigreed livestock.

This Special Reference Brief (SRB) was developed by the Animal Welfare Information Center, at the National Agricultural Library, to compliment the AMBC art exhibition. Breeds featured in this SRB reflect those represented in the art exhibit. The literature contained within each of the breed categories represent historical information on the selection, characteristics, breeding, and use of these livestock. Current literature on present breeding, function, use and related problems are also included. Several agricultural databases and the current and historical collections of the National Agricultural Library, were utilized to develop this document.

The National Agricultural Library (NAL) is one of the richest and most complete repositories of agricultural information in the world. NAL archives rare books and prints of livestock that are valuable in tracing the history of the development of agricultural practices. The selected readings from the NAL collection will provide extensive background to the reader who wishes to gain further information about the breeds of livestock featured in the AMBC exhibit. All citations that are in the NAL collection will include the NAL call number.

The AMBC is dedicated to the preservation of rare breeds of livestock. For more information, AMBC may be contacted at: P.O. Box 477, Pittsboro, NC 27312 or call 919-542-5704.

Donald E. Bixby
Executive Director
The American Minor Breeds Conservancy

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GENERAL

"The extinction of historic breeds of swine." B.H. Kalk, *AMBC News* 8(3):1,3-4 (1991).

NAL call number: SF105.275 U6A42

Descriptors: 1st in a series on breed extinction, reasons for breed loss, loss in crossing with other breeds, US colonial period.

"Artificial insemination and its use in the conservation of genetic resources in pig breeds." J.R. Walters and P.N. Hooper, In: *Genetic Conservation of Domestic Livestock* L. Alderson (ed.), CAB International, Wallingford, UK, 1990, p. 221-226. (ISBN: 0-85198-669-2)

NAL call number: SF105.3 G4

Descriptors: conservation of genetic resources.

"Conservation programmes in Norway." A.K. Hufthammer, In: *Genetic Conservation of Domestic Livestock* L. Alderson (ed.), CAB International, Wallingford, p. 70-72 (1990). (ISBN: 0-85198-669-2)

NAL call number: SF105.3 G4

Descriptors: genetic resources, germplasm conservation, livestock.

"Conservation efforts and problems in New Zealand and Australia." M.R. Rudge, In: *Genetic Conservation of Domestic Livestock* L. Alderson (ed.), CAB International, Wallingford, 1990, p. 18-31. (ISBN: 0-85198-669-2)

NAL call number: SF105.3 G4

Descriptors: genetic resources, status in Australia and New Zealand, livestock.

Kerry and Dexter Cattle and Other Ancient Irish breeds: A History P.L. Curran, Royal Dublin Society, Dublin, Irish Republic, 1990, 142 p.

NAL call number: SF199 D4C8

Descriptors: historical, origins, breed comparison, crossbreeding.

"Rare native breeds of Andalusia: Census, characterization and conservation strategy." A. Rodero, E. Camacho, E. Rodero, I. Serrano, and J. Delgado, In: *Genetic Conservation of Domestic Livestock* L. Alderson (ed.), CAB International, Wallingford, UK, 1990, p. 59-64. (ISBN: 0-85198-669-2)

NAL call number: SF105.3 G4

Descriptors: Spain, cattle, sheep, genetic resources.

"The conservation of rare breeds in West Germany." E. Simak, In: *Genetic Conservation of Domestic Livestock* L. Alderson (ed.), CAB International, Wallingford, UK, 1990, p. 65-69. (ISBN: 1-85198-669-2)

NAL call number: SF105.3 G4

Descriptors: genetic resources, livestock.

"The maintenance of Hungarian breeds of farm animals threatened by extinction." I. Bodo, In: *Genetic Conservation of Domestic Livestock* L. Alderson (ed.), CAB International, Wallingford, UK, 1990. (ISBN: 0-85198-669-2)

NAL call number: SF105.3 G4

Descriptors: horses, cattle, sheep, pigs, conservation, germplasm resources.

"The organization of genetic conservation programmes." J.R. Mulholland, In: *Genetic Conservation of Domestic Livestock* L. Alderson (ed.), CAB International, Wallingford, 1990, p. 120-127. (ISBN: 0-85198-669-2)

NAL call number: SF105.3 G4

Descriptors: genetic resource management, livestock, conservation organizations.

"The relevance of genetic improvement programmes within a policy for genetic conservation." L. Alderson, In: *Genetic Conservation of Domestic Livestock* L. Alderson, (ed.), CAB International, Wallingford, UK, 1990, p. 206-220. (ISBN: 0-85198-669-2)

NAL call number: SF105.3 G4

Descriptors: utility of rare breeds for unusual characteristic, genetic improvement, horses, cattle, sheep, rare breeds, Europe.

"The work of the American Minor Breeds Conservancy, with special reference to the conservation of poultry breeds." R.D. Crawford, In: *Genetic Conservation of Domestic Livestock* L. Alderson (ed.), CAB International, Wallingford, UK, 1990. (ISBN: 0-85198-669-2)

NAL call number: SF105.3 G4

Descriptors: genetic resources, conservation, North America, livestock, poultry, cattle.

"Animal genetic resources in France: Current situation and prospects." [Les ressources genetiques animales francaises: situation actuelle et perspectives.] J. Bougler, In: *La Gestion des Ressources Genetiques des Especies Animales Domestiques* M. Molenat and E. Verrier (eds.), Colloque de Paris, 18 et 19 Avril, 1989, p. 19-27.

Descriptors: germplasm resources, livestock.

"Conservation and management of local livestock breeds in regional nature parks of France." [Conservation et gestion des races locales d'animaux domestiques dans les Parcs Naturels Regionaux francais.] R. Stievenard, In: *La Gestion des Ressources Genetique des Especies Animales Domestiques* M. Molenat, and E. Verrier (eds.), Colloque de Paris, 18 et 19 avril, 1989, p. 95-106.

Descriptors: donkeys, cattle, sheep, goats, horses, livestock genetic resources.

"Conserving rare sheep for the future: The American Minor Breeds Conservancy." D.P Sponenberg, In: *Colored Sheep and Wool: Exploring their Beauty and Function: The Proceedings of the World Congress on Coloured Sheep* U.S.A., K. Erskine (ed.), Black Sheep Press, Ashland, OR, 1989, p. 123-124. (ISBN: 0-96087-362-7)

NAL call number: SF371.2.W67 1989

Descriptors: germplasm for the future.

"Salient aspects of conservation, evaluation and management of animal genetic resources." D.S. Balain, In: *Silver Jubilee Celebrations Veterinary College Anand. Lead Papers and Abstracts* National Seminar on Genetics Applied to Livestock Production, 23-25 October 1989, Anand, India, p. A126-A134.

NAL call number: SF140 B54L53 1989

Descriptors: germplasm conservation, India, livestock, poultry.

The American Minor Breeds Notebook L. Heise and C. Christman (eds.), American Minor Breeds Conservancy, Pittsboro, NC, 1989, 71 p.

NAL call number: SF51 H45

Descriptors: cattle, donkeys, goats, horses.

The Chance to Survive, L. Alderson and A.H. Jolly, LTD Yelvertoft Manor, Northamptonshire NN6 7LF, 1989.

NAL call number: HV4708 A6

Descriptors: endangered species, genetic conservation, origin.

Two Hundred Years of British Farm Livestock S.J.G. Hall and J. Clutton-Brock, British Museum (Natural History), London, 1989, 272 p.

NAL call number: SF105.H34

Descriptors: a survey, history, cattle, sheep, goats, pigs, horses, origins, descriptions, characteristics, many illustrations.

"Bloodlines, inbreeding and incentives in rare breeds." S. Hall, *The Ark* 15(12):421-424 (1988).

NAL call number: SF105.A74

Descriptors: pigs, pedigree, inbreeding.

"Rare sheep breeds in Great Britain and their maintenance." [Seltene Schafrassen in Grossbritannien und ihre Pflege] G. Luhofer, *Deutsche Schafzucht* 80(4):74-76 (1988).

Descriptors: Leicester Longwool, Norfolk Horn, Cotswold, Wensleydale, North Ronaldsay, Lincoln Longwool, Greyface Dartmoor, Oxford Down, Shropshire, Wiltshire Horn, germplasm resources, conservation.

Breeds of Cattle H.R. Purdy and R.J. Dawes, Chanticleer Press Inc., New York, NY, 1987.

NAL call number: SF198.P87 1987

Descriptors: breeds of cattle, characteristics, use.

"The protection of the pig gene pool in Czechoslovakia." [Ochrana genofondu v chovu prasat v CSSR.] R. Siler and P. Majerciak, *Zivocisna Vyroba* 32(9):859-862 (1987).

NAL call number: 49.9 C33

Descriptors: livestock, germplasm resources, pigs, white pigs.

The 1987 American Minor Breeds Conservancy Poultry Census and Sourcebook, C. Christman and L. Heise, American Minor Breeds Conservancy, Pittsboro, NC, 1987.

NAL call number: SF492 C47 1987

Descriptors: poultry breeds, statistics.

"Combined Flock Book." G.L.H. Alderson, *The Ark* 13(10): 336-339(1986).

NAL call number: SF105.A74

Descriptors: history, Combined Flock Book of the UK Rare Breeds Survival Trust, goats, sheep.

The Rare Breeds Handbook D. Wallis, Blandford Press, Poole, UK, 1986, 160 p. (ISBN: 0-71371-615-0)

NAL call number: QL88 W3

Descriptors: livestock, germplasm, conservation.

Genus Bos: Cattle Breeds of the World M. Felius, MSDAGVET, Rahway, NJ, 1985, 234 p.

Descriptors: history, classification, characteristics.

"Proposition for a computerized bibliography on rare breeds. The Sologne sheep as an example." [Proposition d'informatisation de la bibliographie relative aux races a effectif limite.] E. Verrier, M. Boitard, J. Bougler and Y. Chabert, *Bulletin Technique of the Departement de Genetique Animale* Institut National de la Recherche Agronomique (No. 39), 73 pp., 1985.

NAL call number: QH431 I52

Descriptors: proposal for a computerized bibliographic database, germplasm resource management.

"Rare breeds of domestic livestock as a gene bank." P. Jewell, *The Ark* 12(5):158-168 (1985).

NAL call number: SF105.A74

Descriptors: genetic resources conservation.

"Selection methods and breeding programmes used in the conservation of rare breeds of coloured sheep."

G.L.H. Alderson, *The Ark* 12(12):424-426 (1985).

NAL call number: SF105.A74

Descriptors: germplasm conservation, wool producing breeds, breeding strategies.

"The conservation of animal genetic resources in Great Britain." L. Alderson, *Animal Genetic Resources Information* (No.4):26-31 (1985).

Descriptors: livestock genetic resources, germplasm conservation.

"Pelvic dimensions, bodyweight and parturition in rare breeds of sheep." J. Robalo Silva and D.E. Noakes, *The Veterinary Record* 115(10):242-245 (September 8, 1984).

NAL call number: 41.8 V641

Descriptors: ewes, dystocia, structure, parturition complications, birth canal size, dystocia.

"A history of the West Country breeds of sheep." M. Thompson, *The Ark* 11(4):118-121 (1984).

NAL call number: SF105.A74

Descriptors: origins and development of breeds, United Kingdom.

"How can rare breeds be preserved?" [Seltene Rassen - wie kann man sie bewahren?] D. Simon, *Tierzuchter* 36(7):283-284 (1984).

NAL call number: 49 T445

Descriptors: issues of germplasm conservation, freezing, semen, ova, cattle.

"Indigenous breeds: Anachronism or asset?" C.M.A. Baker and C. Manwell. *Proceedings of the 2nd World Congress on Sheep and Beef Cattle Breeding, 16-19 April 1984, Pretoria, South Africa* South African Stud Book and Livestock Improvement Association, 1984, p. 597-601. (ISBN: 0-62008-149-X)

NAL call number: SF371.2 W67 1984

Descriptors: utility of regionally adapted cattle, germplasm conservation, issues.

"Rare breeds - how can they be maintained? Principles of conservation of genetic resources." [Seltene Rassen - wie kann man sie bewahren? Grundsatzliches zur Erhaltung von Genmaterial.] D.L. Simon, *Tierzuechter* 36(7):283-284 (1984).

NAL call number: 49 T445

Descriptors: strategies for germplasm conservation, cattle, swine, sheep, goats, horses, preservations of semen and ova.

"Pig incentives." L. Alderson, *The Ark* 10(11):390-391 (November 15, 1983).

NAL call number: SF105.A74

Descriptors: rare swine breeds, Great Britain.

"Rare breed pigs in commercial farming." D. Stubbs, *The Ark*. 10(9):320-321 (September 15, 1983).

NAL call number: SF105.A74

Descriptors: Middle White.

"The role of rare breed sheep in the farming industry of today." J. Bartelous, *The Ark* 10((8):284-285 (August 15, 1983).

NAL call number: SF105.A74

Descriptors: Lleyn, germplasm conservation, unique breed characteristics.

"Preservation of patrinomy genetics." [Salvanguardia dei patrimoni genetici] L.H. Alderson, *Informatore zootecnico* 30(10):vii-x (May 31, 1983).

NAL call number: 49 IN3

Descriptors: rare breeds, sheep, cattle, Great Britain.

Conservation of Animal Genetic Resources in Europe. Final Report of a Working Party. 34th Annual Meeting of the

European Association for Animal Production, Madrid, Spain, 3rd-6th October, 1983. Volume I. Summaries. Study Commissions. Genetics, Nutrition, Management. K. Majjala, A.V. Cherekaev, J.M. Devillard, Z. Rekleviski, G. Rognoni, D.L. Simon, and D.E. Steane, 1983. (ISBN: 8-47391-114-8)

Descriptors: recommendations, conservation of livestock germplasm.

"Inventory of rare breeds and conservation measures. Pigs. Part 1. Implementation of a conservation program for rare breeds in France: Normandy, Limousin, Gascony and Basque Black Pied." [Inventaire des races menacees et des actions de conservation. Les porcins. 1ere partie. Application d'un programme de conservation aux races porcines menacees en France: Normandie, Limousin, Gasconne et Basque.] C. Texier, *Ethnozootechnie* (No.33):21-24 (1983).

NAL call number: SF84.E8

Descriptors: genetic resources, conservation of livestock germplasm.

"Inventory of rare breeds and conservation measures. Pigs. Part 2. Marginal activities." [Inventaire des races menacees et des actions de conservation. Les porcins. 2eme partie. Le marginal.] M. Molenat, *Ethnozootechnie* (No.33):25-31 (1983).

NAL call number: SF84.E8

Descriptors: genetic resources, germplasm conservation, France.

"Inventory of rare breeds and conservation measures. Sheep." [Inventaire des races menacees et des actions de conservation. Les ovins.] L. Gilbert, *Ethnozootechnie* (No.33):11-19 (1983)

NAL call number: SF84.E8

Descriptors: genetic resources, germplasm conservation, goats, France.

"Rare breed survival in Hungary." E. Henson, *The Ark* 10 (10): 353-354 (1983).

NAL call number: SF105.A74

Descriptors: poultry breeds, germplasm conservation, status.

"Relationships between rare breeds of sheep in the Netherlands as based on blood-typing." R.C. Buis and E.M. Tucker, *Animal Blood Groups and Biochemical Genetics* 14(1):17-26 (1983).

NAL call number: QP98.A1A5

Descriptors: blood types, polymorphism, blood proteins.

"Efforts for maintaining rare, non-commercial, native breeds in Hungary." J. Dohy, I. Bodo and O. Matay, In: *33rd Annual Meeting of the European Association for Animal Production* (No. G1.6): 6 p., 1982.

Descriptors: germplasm conservation program, cattle, sheep, pigs, poultry, horses, dogs.

"Preservation of genes - freezing of embryos." [Genkonservering - frysing av embryo.] K. Ronningen, *Norsk Veterinaertidsskrift* 94(3):195-196 (1982).

NAL call number: 41.8 N81

Descriptors: ova, storage by freezing, germplasm conservation.

"The conservation of declining local breeds of livestock in the USSR." K.M. Ivanov and I.A. Paronyan, In: *33rd Annual Meeting of the European Association for Animal Production* (No. G1.10): 9 pp., 1982.

Descriptors: regionally adapted breeds, germplasm conservation, semen storage.

"Rare Breeds Trust saves genetic material." *Livestock International* 9(4):6-7 (August/September 1981).

NAL call number: SF1.L52

Descriptors: cattle, sheep, United Kingdom.

"Beef cattle breeds." J.J. Daly, *Queensland Agricultural Journal* 107(1): 28-50 (1981).

NAL call number: 23 Q33

Descriptors: origins, history, Polled Hereford, Shorthorn, Polled Shorthorn, Aberdeen-Angus, Red Poll, Murrarie Grey, Devon, Polled Devon, Galloway, South Devon, Sussex, Welsh Black, Brahman, Droughtmaster, Santa Gertrudis,

Braford, Brangus, Africander, Belmont Red, Sahiwal, Charbray, Red Sindhi, Charolais, Simmental, Limousin, Chiana, Maine-Anjou, Aquitaine Blond, Meuse-Rhine-Yssel, German Yellow, Brown Swiss, Piedmont, development in Australia.

Catalog of Indigenous Spanish Breeds. II. Cattle [Catalogo de razas autoctonas espanolas. II. Especie bovina.] A. Sanchez Belda, Ministerio de Agricultura. Madrid, Spain, 1981, 219 p. (ISBN: 8-47497-111-1)
Descriptors: Spain, cattle, breed records.

"French policy on the conservation of endangered breeds." [La politique francaise de conservation des races domestiques en peril.] J.M. Devillard, J. Bougler and J.M. Duplan, In: *Animal Genetic Resources Conservation and Management*. Proceedings of the FAO/UNEP Technical Consultation, Food and Agriculture Organization of the United Nations, Rome, 1981, p. 96-120.
NAL call number: SF1 F64 no.24
Descriptors: ducks, geese, turkeys, rabbits, sheep, cattle, germplasm conservation.

"Haemoglobin D in three rare Dutch breeds of sheep." E.M. Tucker, *Animal Blood Groups and Biochemical Genetics* 12(2):107-112 (1981).
NAL call number: QP98.A1A5
Descriptors: genotypes, blood groupings, blood proteins.

"Second survey results." *The Ark* 8(5):151 (1981).
NAL call number: SF105.A74
Descriptors: rare breeds of livestock, cattle, sheep, UK, Rare Breeds Survival Trust.

"The conservation of animal genetic resources in the United Kingdom." G.L.H. Alderson, In: *Animal Genetic Resources Conservation and Management* Proceedings of the FAO/UNEP Technical Consultation, Food and Agriculture Organization of the United Nations, Rome, 1981, p. 53-76.
NAL call number: SF1 F64 no.24
Descriptors: livestock germplasm resources, semen bank.

Catalog of Indigenous Spanish Breeds I. Sheep and goats [Catalogo de razas autoctonas espanolas. I. Especies ovina y caprina.] C. Esteban Munoz and D. Tejon Tejon, Ministerio de Agricultura, Madrid, Spain, 1980, 207 pp. (ISBN: 8-47479-090-5)
Descriptors: Spain, records.

"Conservation of rare domesticated breeds in zoos and parks in France, Belgium, the Netherlands and Switzerland." [Conservation des races domestiques rares dans les zoos et parcs naturels de France, Belgique, Pays-Bas et Suisse.] J.J. Lauvergne, *Bulletin Technique* Department de Genetique Animale, Institut National de la Recherche Agronomique no. 33, 1980, 40 p.
NAL call number: 14 F8462
Descriptors: role of zoos, germplasm conservation, inbreeds, sheep, goats, cattle, pigs, horses.

Rare Breeds: The Vulnerable Survivors R. Whitlock, Prism Press, Dorchester, UK, 1980, 160 p. (ISBN: 0-90472-787-4)
NAL call number: QL88 W4
Descriptors: livestock.

"A French survey" L. Avon, *The Ark* 6(8):252-255 (August 15, 1979).
NAL call number: SF105.A74
Descriptors: status of rare breeds in France including cattle, sheep, goats, horses.

"Genetic conservation of large livestock." G.L.H. Alderson, *Span* 22(2):81-82 (1979).
NAL call number: S590 S625

Descriptors: germplasm preservation, international, cattle, sheep, horses, pigs.

Inventory of Special Herds and Flocks of Breeds of Farm Animals (Ass, Banteng, Buffalo, Cattle, Goat, Horse, Pig, Sheep) Including Conservation Herds of Rare Breeds, Feral Populations, Domestic Animals in Zoos and Experimental and Selection Strains I.L. Mason, Food and Agriculture Organization of the United Nations, Rome, 1979, 114p.

Descriptors: livestock germplasm, census.

"Loss of genetic alternatives in animal breeding - preventative measures." [Verlust genetischer Alternativen in der Tierzucht - notwendige Konsequenzen.] D.L. Simon and H. Schulte-Coerne, *Zuchtungskunde* 51(5):332-342 (1979).

NAL call number: 49 Z8

Descriptors: germplasm conservation issues, livestock.

"Outcrossing and some implications for rare breeds. Part I." A.J. Sheppy, *The Ark* 6(11):354-356 (1979).

NAL call number: SF105.A74

Descriptors: swine.

"Rare breeds and the fleece evolution of British sheep." M.L. Ryder, *The Ark* 5(4):120-129 (April 15, 1978).

NAL call number: SF105.A74

Descriptors: wool production.

"Breed of the month--Leicester longwool." *The Ark* 5(3):78-79 (March 15, 1978)

NAL call number: SF105.A74

Descriptors: old rare sheep breed of England, characteristics, history.

"Rare breeds in the British sheep industry." G.L.H. Alderson, *The Ark* 5(6):195-198 (1978).

NAL call number: SF105.A74

Descriptors: breeds of sheep, characteristics, use, production.

"Selection of dairy breeds. Objectives and methods. Practical aspects." [La selection en races laitieres. Objectifs et methodes. Aspects d'actualite.] M. Franck, *Revue de Medecine Veterinaire* 129(7):1047-1063 (1978).

NAL call number: 41.8 R32

Descriptors: selection criteria, genetic characteristics, breed origins, Friesian, Normandy, Montbeliard.

The Chance to Survive: Rare Breeds in a Changing World L. Alderson, Cameron & Tayleur, London, 1978, 192 p.

NAL call number: HV4708 A6

Descriptors: records, livestock breed societies.

"A Swiss survey." L. Avon, *The Ark* 4(12):414-417 (December 15, 1977).

NAL call number: SF105.A74

Descriptors: rare livestock breeds, cattle, Braunvieh, Fribourg, Evolene, Herens, Simmental, 4 breeds of sheep, 7 breeds of goats are mentioned.

"A rare breed indeed." J.G. Fairchild, *Pig Farmer* 11(6):365, 367-368 (December 1976)

NAL call number: SF391.P5

Descriptors: swine.

"Breed origins." G.L.H. Alderson, *The Ark* 3(11):308 (November 15, 1976)

NAL call number: SF105.A74

Descriptors: rare livestock breeds, sheep.

"A place in the future for minor breeds." A. Manchester, *Pig Farming* 24(9):71-72 (September 1976).

NAL call number: 46.8 P623

Descriptors: swine breeds, role in modern agriculture.

"Livestock farming up to 1980: Forecasting is difficult. [L'elevage a l'horizon 1980. Une prevision difficile.]"

Tracteurs et Machines Agricoles 52(3):199-214 (1976).

NAL call number: S711 A2

Descriptors: series of articles, dairy cattle, origins, geographical distribution, milk yield and composition, French Friesian, Normandy, Eastern Red Pied, Montbeliard, Abondance, Breton Black Pied and Tarentaise, production trends.

"The problem of rareification, or the disappearance of certain domestic breeds and species in France."

J. Bougler, *The Ark* 2(1):10-13 (January 15, 1975).

NAL call number: SF105.A74

Descriptors: rare breeds of livestock, cattle, goats, sheep, pigs, horses, poultry.

Pilot Study on Conservation of Animal Genetic Resources Food and Agriculture Organization of the United Nations, Rome, 1975, 60 p.

NAL call number: SF105 U5

Descriptors: cattle, sheep, goats, pigs, horses, breeds conservation.

Animal Agriculture. The Biology of Domestic Animals and Their Use by Man H.H. Cole and M. Ronning (eds.), W.H. Freeman, Reading, UK, 1974, 788 p. (ISBN: 0-71670-791-8)

NAL call number: SF61 C59

Descriptors: cattle, swine, sheep, poultry, animal production, nutrition, husbandry, zootechny.

"Beef cattle breeds I. & II." J.J. Daly, *Queensland Agricultural Journal* 100(3):117-125 (1974).

NAL call number: 23 Q33

Descriptors: origins, Hereford, Poll Hereford, Shorthorn, Poll Shorthorn, Angus, Red Poll, Murray Grey, Devon, South Devon, Sussex, Welsh Black, development in Australia.

The Battle of the Bull Runts: Overcoming Dwarfism L.P. McCann, Columbus, OH, 1974

NAL call number: SF199 H4M37

Descriptors: Herford cattle, dwarfism, animal breeding.

Dairy Cattle Breeds: Origin and Development R.B. Becker, University of Florida Press, Gainesville, FL, 1973, 554 p.

NAL call number: SF208 B35

Descriptors: domestication, selection, development, Ayrshire, Brown Swiss, Dutch Belted, Guernsey, Friesian, Jersey, Shorthorn, Red Danish.

Genetic Conservation and the Less Common Breeds of British Cattle, Pigs and Sheep J.C. Bowman and C.T. Aindow, Reading University, UK, 1973, 43 p. (ISBN: 0-70490-227-3)

NAL call number: S560 R4 N.13

Descriptors: Caithness, Cumberland, Dorset Gold Tip, Lincolnshire Curley Coat, Yorkshire Blue and White, Blue Albion, British White, Wild White, Castlemartin Welsh Black, South Wales Black, Dexter, Gloucester, Longhorn, Shetland, Berkshire, British Lop, Gloucester Old Spot, Oxford Sandy-and-Black, Tamworth, Black Welsh Mountain, Cotswold, Lincoln Longwool, Lley, Manx Loaghtan, Norfolk Horn, North Ronaldsay, Orkney, Portland, Rhiw, Soay, St. Kilda, Wensleydale, White-faced Dartmoor, White-faced Woodland, Wiltshire Horn conservation, cattle, sheep.

World Cattle III. Cattle of North America J.E. Rouse, University of Oklahoma Press, Norman, OK, 1973, 650 p.

NAL call number: SF196 A43R68

Descriptors: breeds of cattle, Caribbean, Middle America, Canada, United States, types of cattle, management, marketing, slaughterhouses, diseases, breed origins, population survey.

"Cattle breeds for extensive beef production. [Kvaegracer i den ekstensive koedproduktion.]" B.B. Andersen, *Tidsskrift for Landoekonomie* 158(3):255-260 (1971).

NAL call number: 11 T43

Descriptors: origin, conformation, production, characteristics, Hereford, Aberdeen-Angus, Beef Shorthorn, Devon,

Sussex, Limousin, Charolais, Blonde d'Aquitaine, Romagna, Chiana, Piedmont, Maine-Anjou, Simmental, German Yellow, Central and Upper Belgian, Brangus, Santa Gertrudi and Braford breeds.

World Cattle J.E. Rouse, University of Oklahoma Press, Norman, OK, 1970

NAL call number: SF197 R6

Descriptors: cattle breeds, origins, history, use, characteristics, distribution.

Animal Breeding A.L. Hagedoorn, London, 1962, 6th edition.

NAL call number: 40 H122 Ed.6

Descriptors: breeding, preservation.

Breeds of Livestock in America Henry W. Vaughan, Columbus, OH, 1931.

NAL call number: 40 B76

Descriptors: breeds of livestock.

Cattle of the World Alvin H. Sanders, National Geographic Society, Washington, DC, 1926.

Descriptors: breeds, type, characteristics.

Cattle Breeding Proceedings of the Scottish Cattle Breeding Conference Edward N. Wentworth, Edinburg, 1925.

NAL call number: 43 Sco8

Descriptors: breeding, genetics, show, market, standards.

The New Book of the Horse C. Richardson, Cassell and Company, Ltd., London, v.1-2 1911.

NAL call number: 42 R39

Descriptors: origins, famous horses of the breeds, ponies, draft horses, hunting breeds.

The Study of Breeds Thomas Shaw, Orange Judd Co., New York, NY, 1910.

NAL call number: 40 Sh2

Descriptors: breeds of livestock.

The Horses of the British Empire Sir H.F. De Trafford (ed.), WALTER Southwood & Co. Ltd., London, v. 1-2, 1908.

NAL call number: 42.D48

Descriptors: chapters on individual breeds, origins of domestic horses, racehorses, hunters, draft, driving Thoroughbreds.

Types and Breeds of Farm Animals Charles S. Plumb, Boston, MA, 1906.

NAL call number: 40 P73

Descriptors: breeds of livestock.

Horses. Past and Present Sir W. Gilbey, Vinton & Co., London, 1900, 89 p.

NAL call number: 42 G37H

Descriptors: history, horses in England, use in different historical periods.

Horses, Cattle, Sheep, and Swine G.W. Curtis, College Station, TX, 1888.

NAL call number: 40 C94 Ed.2

Descriptors: breeds of livestock.

The Breeds of Livestock J.H. Sanders, Chicago, IL, 1887.

NAL call number: 40 Sa5

Descriptors: breeds of livestock.

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CATTLE

ABERDEEN-ANGUS

The History of the Angus Breed American Angus Association, St. Josephs, MO, 1981, 49 p.

NAL call number: SF199 A14H57 1981

Descriptors: origins, historical, characteristics, production, use.

Aberdeen-Angus Reference Book E.J. Gillanders (Ed.), Holmes McDougall Ltd., Perth, UK, 1977, 160 p.

Descriptors: history, trends, use.

"The use of Aberdeen-Angus in the Ukraine. [Ispol'zovanie aberdin-angusov na Ukraine.]" A.G. Timchenko, *Skotovodstva* 21(1):58-65 (1976).

Descriptors: history of importation, artificial insemination, production data.

"Genetic variation among and within herds of Angus and Hereford cattle." L.V. Cundiff, K.E. Gregory and C.E. Long, *Journal of Animal Science* 41(5):1270-1280 (1975).

NAL call number: 49 J82

Descriptors: birth and viability data, weaning data, carcass data Aberdeen-Angus, Polled Hereford.

Aberdeen-Angus Cattle, a Brief History of Their Origin in Scotland and Development in America American Angus Association, St. Joseph, MO, 1964, 76 p.

NAL call number: 43 AM324A

Descriptors: origin, selection, use, characteristics.

ANOKA, 15 Years After: A Brief Story Dealing with the Founding and Development of the Anoka Herd of Aberdeen-Angus Cattle Owned by Edwards Brothers Frederick W. Crawford, Waterford and London, Ontario, Canada, 1951, 35 p.

NAL call number: 43 C85A

Descriptors: cattle breeder, selection, history, production.

Aberdeen-Angus Cattle Raising at its Best American Aberdeen-Angus Breeder's Association, Chicago, IL, 1950, 48 p.

NAL call number: 43 AM3A 1950

Descriptors: management, breeding, performance, selection.

Brief History of Origin and Development of Aberdeen-Angus in Scotland and America American Aberdeen-Angus Breeder's Association, Chicago, IL, 1949, 56 p.

NAL call number: 43 AM3B 1949

Descriptors: origins, selection, use, characteristics.

Aberdeen-Angus Cattle in Canada F.W. Crawford, The Canadian Aberdeen-Angus Breeder's Association, Winnipeg, Canada, 1944, 173 p.

NAL call number: 43 C85

Descriptors: history, breeders, pedigrees, performance.

Breeding and Management of Aberdeen-Angus Cattle in the East and South American Aberdeen-Angus Breeder's Association, Chicago, IL, 1943, 27 p .

NAL call number: 43 AM3BR 1943

Descriptors: management, production, husbandry, selection, breeding.

Origin of the Aberdeen-Angus and its Development in Great Britain and America 4th ed., American Aberdeen-Angus Breeder's Association, Chicago, IL, 1920, 36 p.

NAL call number: 43 AM3 ed.4

Descriptors: origin, characteristics, selection, use.

The American Aberdeen-Angus Herdbook Containing a Record of Aberdeen Angus Cattle Approved and Admitted for Registry Under the By-Laws of the American Aberdeen-Angus Breeder's Association American Aberdeen-Angus Breeder's Association, Beecher, IL, 1886-1916.

NAL call number: 43.9 AM32

Descriptors: parentage, bloodlines, pedigrees.

Supremacy of Aberdeen-Angus Cattle: Results of Leading Fat Stock Shows of Great Britain and America 3rd ed.

Charles Cray, American Aberdeen-Angus Breeder's Association, Chicago, IL, 1914, 79 p.

NAL call number: 43.9 AM32S

Descriptors: show records.

History of Aberdeen-Angus Cattle James Macdonald and James Sinclair, Vinton and Co. Ltd., London, UK, 1910, 682 p.

NAL call number: 43 M14H

Descriptors: origin, breeders, characteristics, use.

Aberdeen-Angus Cattle. Being Notes on Fashion and Account of Some of the Leading Families of the Breed Albert Pulling; Simpkin, Marshall, Hamilton, Kent and Co.; London, UK, 1908, 150 p.

NAL call number: 43 P96

Descriptors: cattle breeders, pedigrees, origins, history, use.

The Canadian Aberdeen-Angus Herdbook Canadian Aberdeen-Angus Association, Ottawa, Canada, v. 1, 1908.

NAL call number 43.9 C165

Descriptors: herdbook.

History of Polled Aberdeen or Angus Cattle: Giving an Account of the Origin, Improvement, and Characteristics of the Breed James MacDonald and James Sinclair, Blackwood, Edinburgh, 1882, 459 p.

NAL call number: SF199.A14M3

Descriptors: origins, selection, use, characteristics.

The Aberdeen-Angus Herdbook, Containing the Pedigree of Aberdeen-Angus Cattle Aberdeen Angus Society, Aberdeen, v.1, 1877.

NAL call number: 43.9 P76

Descriptors: herdbook.

AYRSHIRE

"Basic semen characters and their correlation for Ayrshire bulls of different origin. [Osnovnye konstanty semeni i ikh vzaimosvyaz' u airshirskikh bykov raznogo proiskhozhdeniya.]" L.N. Mishina, *Byulleten' Vsesoyuznogo Nauchno Issledovatel'skogo Instituta Razvedeniya i Genetiki Sel'skokhozyaistvennykh Zhivotnykh* 15: 46-47 (1976).

Descriptors: semen data, bulls, local and imported.

"Cattle breeding in Finland." U. Lindstrom, *Karjalous* 52(12):4-17, 25-29 (1976).

NAL call number: 43.8K14

Descriptors: multi-purpose or single-purpose breeds, Finnish Ayrshire, tabular data, milk yield, milk composition.

"Economic breeding for milk and beef in the Finnish Ayrshire." U.B. Lindstrom and V. Vilva, In: *Symposium on Ayrshire Cattle Breeding* Vaaksky, Finland, 20th-24th September 1976, Animal Breeding Institute, Box 18, 01301 Vantaa 30, Vaasky, Finland, 1976, 20 p.

Descriptors: discounted gene flow technique, genotypic and phenotypic economic parameters, artificial insemination, selection.

A History of Ayrshire Cattle in the United States George Augustus Bowling, McClain Printing Co., Parsons, WV, 1975, 333 p.

NAL call number: SF199.A9B68

Descriptors: origins, characteristics, uses.

"Ayrshire cattle in the USSR." N.G. Dmitriev, *Zapiski Leningradskogo Sel'skokhozyaistvennogo Instituta* 141:107-115 (1971).

Descriptors: history, USSR.

The Judging and Selection of Ayrshire Cattle Ayrshire Cattle Herdbook Society of Great Britain and Ireland, Ayr, Scotland, 1946, 12 p.

NAL call number: 43 AY72J

Descriptors: conformation, type, characteristics, performance, use.

The Gregory Herd: Attested Pedigree Ayrshires H. Gregory, Conper Press, Huntington, 1943, 15 p.

NAL call number: 43 G862

Descriptors: animal breeder, production, breeding, use, performance.

The Aristocrats of Cattledom Ayrshire Breeder's Association, Brandon, VT, 1920, 12 p.

NAL call number: 43 AY7AR

Descriptors: Ayrshire cattle, use, characteristics, type, production.

The Ayrshire Cow in America James G. Watson, Ayrshire Breeder's Association, Brandon, VT, 1918, 58 p.

NAL call number: 43 W33

Descriptors: origins, history, breeders, use.

The Ayrshire Cow Ayrshire Breeder's Association, The Argus Company, Albany, NY, 1909, 19 p.

NAL call number: 43 AY7A

Descriptors: characteristics, history, origin, use.

The Ayrshire Breed and the Scale of Points of the Perfect Ayrshire Cow Ayrshire Breeder's Association, Brandon, VT, 1906, 12 p.

NAL call numbers: 43 AY7

Descriptors: characteristics, type, use, conformation.

The Canadian Ayrshire Herdbook Canadian Ayrshire Breeder's Association, Ottawa, Canada, 1898.

NAL call number: 43.9 CI62C

Descriptors: herdbook.

Constitution of the Ayrshire Breeder's Association with a History of the Breed and General Information Ayrshire Breeder's Association, Brandon, VT, 1896, 37 p.

Descriptors: origin, history, characteristics, guidelines, production, use.

The North American Ayrshire Register: Wherein Every Animal is Traced to Importation E. Lewis and Joseph N. Sturtevant, A. Mudge and Son, Boston, MA, volumes 1-4, 1875.

NAL call number: 43.9 N812

Descriptors: ancestry, pedigrees, records.

American and Canadian Ayrshire Herd Record: Herd Record of the Association of Breeder's of Thoroughbred Neat Stock: Ayrshires American Ayrshire Breeder's Association, Springfield, MA, 1863-1875.

NAL call number: 43.9 SA4R

Descriptors: herd records.

DEVON

"The origin of South Devon cattle [Gelbvieh]." C.M.A. Baker, *Agricultural History Review* 32(2):145-158 (1984).

NAL call number: 30.98 AG82

Descriptors: history, characteristics, use.

"The use of genetic relationships among cattle breeds in the formulation of rational breeding policies: A re-examination of the example of the South Devon and the Gelbvieh." C.M.A. Baker, *Animal Blood Groups and Biochemical Genetics* 13(3):199-212 (1982).

NAL call number: QP98 A1A5

Descriptors: Blood data, frequencies, British South Devon, African South Devon, breed evolution, geographical and historical evidence.

"Breed of the month--Devon cattle in New England." *The Ark* 4(7):217-218 (July 15, 1977).

NAL call number: SF105.A74

Descriptors: rare breed, historical uses, characteristics.

Do It With Oxen Harold Merton Chesley, Dora, MO, Privately Printed, 1975.

Descriptors: milking devon.

South African Devon Herdbook Devon Cattle Breeder's Society of South Africa, South African Studbook Association, Capetown, 1919.

NAL call number: 43.9 D492

Descriptors: herdbook.

American Devon Record: Containing the Pedigrees of Purebred Devon Cattle in the United States and the Dominion of Canada, 1881-1904 West Virginia Printing Co., Wheeling WV, 1899.

NAL call number: 43.9 AM35

Descriptors: herd record.

History of the Devon Breed of Cattle James Sinclair, London, 1893, 392 p.

NAL call number: 43 SI6

Descriptors: origins, history, characteristics, use.

Milch Cows and Dairy Farming Charles A. Flint, Boston, MA, 1866.

NAL call number: SF239 F62 1867 R

Descriptors: milking devon.

American Devon Herdbook H.M. Sessions (ed.), Association of Breeder's of Thoroughbred Neat Stock, Springfield, MA, 1863.

NAL call number: 43.9 AM345

Descriptors: herdbook.

The Devons as Milkers The National Wool Grower and Stock Register, February 1854, p. 127.

Descriptors: Milking Devon.

Davy's Devon Herdbook Volume 1-8, Devon Cattle Breeds Society, Taunton, UK, 1851.

NAL call number: 43.9 D49

Descriptors: herdbook.

Afoot in England W.J. Hudson, New York, NY.

Descriptors: Milking Devon.

GUERNSEY

The English Guernsey Society's Herdbook English Guernsey Cattle Society, London and Lewes, London, volume 1-92, 1885-1976.

NAL call number: 43.9 EN33

Descriptors: herdbook.

Guernseys, the Golden Butter Breed English Guernsey Cattle Society, London, 1946, 44p.

NAL call number: 43 EN33

Descriptors: use, characteristics, performance, origin.

The Guernsey William H. Caldwell, American Guernsey Cattle Club, 7614 Slate Ridge Blvd., Reynoldsburg, OH, 1941, 393 p.

NAL call number: 43 C122G

Descriptors: origin, history, use, characteristics.

The Performance Register American Guernsey Cattle Club, Peterborough, NH, 1941.

NAL call Number: 43.9 AM33P

Descriptors: herdbook.

The History of Channel Island Cattle: Guernseys and Jerseys E. Parmalee Prentice, Mount Hope Farm, Williamstown, MA, 1940, 100 p.

NAL call number: 43 P91H

Descriptors: origins, characteristics, use, breeders.

Golden Guernsey Alfred Campbell, D. Kemp and Co., NY, 1938, 298 p.

NAL call number: 126 C15

Descriptors: cattle, use, characteristics.

Herd Register American Guernsey Cattle Club, Peterborough, NH, 1878-1933.

NAL call number: 43.9 AM33H

Descriptors: registered herds.

"Productivity of Guernsey cows of American or island origin." John W. Gowen, *Bulletin Maine Agricultural Experiment Station, Orono* 341:218-228 (1927).

NAL call number: 100 M28S (1) no.341

Descriptors: production analysis, animal breeding, variation, selection.

Langwater Guernseys. A Testimonial to Frederick Lothrop Ames for his Devotion, Study and Effort for the Improvement of the Guernsey Cow. Historical Record of the Langwater Guernsey Herd William H. Caldwell, American Guernsey Cattle Club, Rumford Press, Concord, NH, 1925, 136 p.

NAL call number: 43 C122

Descriptors: cattle breeder, animal breeding, performance, selection.

Canadian Guernsey Herdbook Canadian Guernsey Breeder's Association, Ottawa, CAN, 1919, v. 1.

NAL call number: 43.9 C166

Descriptors: herdbook.

Story of the Guernsey Cow: Her Early History, Characteristics and Accomplishments American Guernsey Cattle Club, Peterborough, NH, 1919, 32 p.

NAL call number: 43 AM35S 1919

Descriptors: origins, type, use, records.

The Guernsey Breed Charles L. Hill, Fred L. Kimball Co., Waterloo, IA, 1917, 417p.

NAL call number: 43 H55

Descriptors: cattle, origin, history, characteristics, use.

Story of the Guernsey Cow: Her Early History, Characteristics and Work: Also a Record Book for Your Dairy Herd American Guernsey Cattle Club, Peterborough, NH, 1915, 18 p.

NAL call number: 43 AM35S

Descriptors: origins, type, use, records.

The Jersey, Alderney and Guernsey Cow: Their History, Nature and Management. Showing how to Choose a Good Cow: How to Feed, to Manage, to Milk to Breed to the Most Profit Willis P. Hazard, Porter and Coates, Philadelphia, PA, 1872, 142 p.

NAL call number: 43 H33

Descriptors: origin, characteristics, production, use.

HEREFORDS

A History of Hereford Cattle and Their Breeders E. Heath-Agnew, Duckworth, London, 1983, 334 p.

NAL call number: SF199.H4H4

Descriptors: origins, characteristics, selection, cattle breeders.

Wyoming Hereford Ranch, 1883-1983, Century of Endurance: Herefordom's Fascinating, Continuing Romance Forrest Bassford, Wyoming Hereford Ranch, P.O. Box 868, Cheyenne, WY, 1983, 36 p.

NAL call number: SF199.H4B37

Descriptors: historical, Hereford cattle breeder.

"One hundred years of progress: Longhorn vs. Hereford vs. three-breed crossbred cattle." G.C. Smith, N.J. Adams and Z.L. Carpenter, *Beef Cattle Science Handbook* 18:230-236 (1981).

NAL call number: SF207.B4

Descriptors: historical, animal breeding, selection.

The First 49: Personalities in the Honor Gallery of the AHA's Hereford Heritage Hall, Centennial Edition, Donald R. Ornduff, (with an introduction by B.C. Snidow), Hereford Heritage Hall, Lowell Press, Kansas City, MO, 1981, 281 p.

NAL call number: SF199.H4O69 1981

Descriptors: Hereford cattle breeders, history.

"The historic Hereford, built on a solid foundation." P. Brock, *The Cattleman* 67(3):84-86, 88 (August 1980).

NAL call number: 49 C29

Descriptors: cattle, origins, characteristics, use.

"Genetic history of the pedigree Poll Hereford breed in Australia: Effect of the importation ban." G.L. Toll and J.S.F. Barker, *Australian Journal of Agricultural Research* 30(4):767-777 (1979).

NAL call number: 23 AU 783

Descriptors: inbreeding, generation length, imported Herefords.

"The gene pool of Hereford cattle at the "Mikhailovskoe" experiment farm of the Stavropol Agricultural Research Institute. [Materialy k izucheniyu genofonda gerefordskogo skota v opytном khozyaistve

Stavropol'skogo NIISKh "Mikhailovskoe".J]" A.M. Petrova and B.E. Podoba, *Khozyaistva* 44:36-41 (1977).

Descriptors: gene frequencies, B blood-group.

Birth of a Breed: The History of Polled Herefords - America's First Beef Breed Orville K. Sweet, American Polled Hereford Association, Lowell Press, Kansas City, MO, 1975, 386 p.

NAL call number: SF199.H4S95

Descriptors: origin, characteristics, use.

"C.C. Slaughter's Sir Bredwell." D.J. Murrah and E.E. Fleming, *Cattleman* 60(3):66, 70, 75 (August 1973).

NAL call number: 49 C29

Descriptors: hereford cattle, history.

The Hereford in America: A Compilation of Historic Facts About the Breed's Background and Bloodlines 3rd ed. Donald R. Ornduff, Hereford History Press, Kansas City, MO, 1969, 483 p.

NAL call number: SF199.H407 1969

Descriptors: origins, characteristics, use, pedigrees.

"History and performance of inbred lines of Hereford cattle developed at the United States Range Livestock Experiment Station." J.J. Urick, *Bulletin Montana State College Agricultural Experiment Station* Bulletin No. 602, 1966, 22 p.

NAL call number: 100 M76 (1) no.602

Descriptors: origin, production testing, selection, performance, linebreeding.

Herefords in New Zealand New Zealand Hereford Cattle Breeder's Association, Fielding, NZ, 1955, 107 p.

NAL call number: 43N 482

Descriptors: history, use, characteristics, production.

"Genetic history of the line 1 Hereford cattle at the United States Range Livestock Experiment Station, Miles City, Montana." Bradford Knapp, Jr., Robert C. Church and Alva E. Flower *Bulletin Montana State College Agricultural Experiment Station* Bulletin No. 479, 1951, 27 p.

NAL call number: 100 M76 (1) no.479

Descriptors: production testing, selection, inbreeding, performance.

A History of Linebred Anxiety 4th Herefords of Straight Gudgell and Simpson Breeding John M. Hazelton, Association of Breeder's of Anxiety 4th Herefords, Kansas City, MO, 1939, 569 p.

NAL call number: 43 H333H

Descriptors: pedigree, animal breeding, performance, history.

The Story of the Highlands Frank Reeves, Highland Hereford Breeder's Association, 1936, 88 p.

NAL call number: 43 R25

Descriptors: origin, Hereford cattle, history, use, characteristics.

History and Handbook of Hereford Cattle and Hereford Bull Index John M. Hazelton, Walker Publications, Inc., Kansas City, MO, 1935, 512 p.

NAL call number: 43 H333 ed.3

Descriptors: origin, use, characteristics, performance, production.

History and Handbook of Hereford Cattle and Hereford Bull Index John M. Hazelton, Hereford Journal Co., Kansas City, MO, 1925, 391 p.

NAL call number: 43 H333

Descriptors: origin, use, characteristics, performance, production.

Polled Herefords, "America's Favorite Beef Breed": The Story of the Origin, Development and Achievements of the Hornless Type of Purebred Hereford Cattle American Polled Hereford Breeder's Association, Des Moines, IA, 1920,

32 p.

NAL call number: 43 AM 39

Descriptors: history, origins, characteristics, use, breeding, performance.

Hereford Cattle, 1882-1919 American Hereford Cattle Breeder's Association, Kansas City, MO, 1919, 32 p.

NAL call number: 43 AM38

Descriptors: history, origin, use, breeding.

The American Hereford Record and Hereford Herdbook American Hereford Cattle Breeder's Association, Beecher, IL, v. 1-42, 1880-1916.

NAL call number: 43.9 AM37

Descriptors: herdbook, records.

The Story of the Herefords: An Account of the Origin and Development of the Breed in Herefordshire, a Sketch of its Early Introduction into the United States and Canada and Subsequent Rise to Popularity in the Western Cattle Trade, with Sundry Notes on Management of Breeding Herds Alvin H. Sanders, The Breeders Gazette, Chicago, IL, 1914, 1087 p.

NAL call number: 43 SA5S

Descriptors: origins, use, characteristics, history, management.

History of Hereford Cattle James MacDonald and James Sinclair, Vinton and Company Ltd., London, 1909, 501 p.

NAL call number: 43 M14

Descriptors: origins, historical, herds, breeders, characteristics.

The Herdbook 1899-1908 New Zealand Hereford Cattle Breeder's Association, Masterton, NZ, 1908.

NAL call number: 43.9 N 483

Descriptors: herdbook.

History of Hereford Cattle T.L. Miller, T.F.B. Sotham, Chillicothe, MO, 1902, 592 p.

NAL call number: 43 M612

Descriptors: origins, historical, herds, breeders, characteristics.

Herdbook of Hereford Cattle Hereford Herdbook Society, Hereford, England, 1846.

NAL call number: 43.9 H42H

Descriptors: herdbook.

HIGHLAND

"Cytogenetic monitoring in populations of hardy breeds of cattle." [3 Shk.-semin. po genet. i selektsii zhivotnykh, 2 Nauch]. D.K. Belyaeva and A.A. Sharshov, *Referativnyi Zhurnal* 1(58):405 (1990).

Descriptors: Highland cattle, 1/29 gene translocation, effects of crossbreeding, Kazakh Whiteheaded, Russian Simmental (RS).

"Economic assessment of extensive forms of beef cattle farming. [Betriebswirtschaftliche Bewertung extensiver Formen der Rindfleischerzeugung]." H. Seuster, *Ergebnisse Landwirtschaftlicher Forschung an der Justus-Liebig-Universität* (No. 19):167-179 (1989).

NAL call number: 105.8 G36E

Descriptors: extensive cattle farming, natural pasture, Galloway, Highland cattle, profitability.

"Social behaviour and reproductive performance in semi-wild Scottish Highland cattle." C. Reinhardt, A. Reinhardt, and V. Reinhardt, *Applied Animal Behaviour Science* 15(2):125-136 (1986).

NAL call number: QL750.A6

Descriptors: Social behavior, reproductive performance agonistic behavior herd structure.

"Scottish Highland cattle in the Imbros Netherlands." S.E. Van Wieren, *Lutra* 27(2):213 (1984).

Descriptors: performance on pasture.

Highland Cattle Herd Book Highland Cattle Society of Scotland, v. 31-62 (1952-1982).

NAL call number: 43.9 H53

Descriptors: registry of births and parentage.

"Performance of Highland cattle under range conditions." J.E. Lawson, *Agriculture Canada: Research Highlights 1980* Research Station, Lethbridge, Alberta, 1981, p. 37-39.

NAL call number: S542.C29R4

Descriptors: Hereford, Highland, Highland X Hereford, Hereford X Highland, carcass weight, milk production, comparison study.

"Highland cattle at home (West Highlander)." J.L. Jones, *Country Life* 166(4298):1950-1951 (November 22, 1979).

NAL call number: 80 C83

Descriptors: breeding these unusual cattle.

"The Luing breed." D.J. Cadzow, *Massey-Ferguson Papers* No. 8, 44 p. (1974).

Descriptors: history, breed development, Beef Shorthorn, Highland cattle, size, weight, ease of calving.

"Ambient temperature and ration effects on nutritional and physiological parameters of heat and cold tolerant cattle." S.E. Olbrich, F.A. Martz, and E.S. Hilderbrand, *Journal of Animal Science* 37(2):574-580 (1973).

NAL call number: 49 J82

Descriptors: Highland Cattle, Zebus, type of feed, body temperature, effects of ambient temperature.

Highland Herd Book The Highland Cattle Society of Scotland, v.1-30 (1895-1951).

NAL call number: 43.9 H53

Descriptors: registry of births, parentage.

Highland Cattle Today and Yesterday A. MacKenzie, Highland Cattle Society, Glasgow, Scotland, 1948.

NAL call number: 43 M193

Descriptors: short history of the breed, breed characteristics.

Highland Hardiness for Profit Highland Cattle Society of Scotland, Edinburgh, 1945, 15p.

NAL call number: 43.9 H53

Descriptors: care and husbandry.

"Highland Cattle." J. Roberts, *USDA Bureau of Animal Industry Circular* No. 88 (1905).

NAL call number: 1 AN 5C no.88

Descriptors: use in US Agriculture, care.

MILKING SHORTHORN

Journal of the Milking Shorthorn and Illwarra Breeds American Milking Shorthorn Society, v. 56-current (1975-present)

NAL call number: 43.8 M59

Descriptors: champions, Society news, sales of animals.

"Lifetime productivity of purebred and crossbred cows of Angus and Milking Shorthorn parentage: Weights and scores." S.J. Croak-Brossman, T.G. Martin, and L.A. Nelson, *Journal of Animal Science* 59(6):1451-1458 (1984).

NAL call number: 49 J82

Descriptors: lifetime productivity, body weight.

"Lifetime productivity of purebred and crossbred cows of Angus and Milking Shorthorn parentage." S.J. Croak-Brossman, *Dissertation Abstracts International, B (Sciences and Engineering)* 44(6):1715 (1983).

NAL call number: Z5055.U49D53

Descriptors: crossbreeding, calf production, body weight, longevity; cattle breeds.

"Genetic means and trends of dairy sires in the United States." R.L. Powell, H.D. Norman and F.N. Dickinson, *Journal of Dairy Science* 63(9):1455-1461 (1980).

NAL call number: 44.8 J822

Descriptors: predicted differences, breed differences, Milking Shorthorn, Holstein-Friesian, progeny testing, milk production.

"Maximum likelihood estimation of genetic parameters in Canadienne, Brown Swiss, and Milking Shorthorn." W.D. Szkotnicki, A.K.W. Tong, K.M. Krotch, M.A. Sharaby, L.P. Johnson, and L.R. Schaeffer, *Canadian Journal of Animal Science* 58(2): 271-276 (1978).

NAL call number: 41.8 C163

Descriptors: milk production, milk fat, genetic effects, heritability.

"Sire and cow evaluation in Brown Swiss, Canadienne and Milking Shorthorn." W.J. Szkotnicki, A.K.W. Tong, M.A. Sharaby, K.M. Krotch, L.P. Johnson, and L.R. Schaeffer. *Journal of Dairy Science* 61(4):497-505 (1978).

NAL call number: 44.8 J822

Descriptors: milk yield, comparison study.

"State and national standardized lactation averages by breed for cows on official test calving in 1974." G.J. King, *Dairy Herd Improvement Letter* 52(5):4-6 (1976).

NAL call number: aSF191 D3

Descriptors: lactation averages, milk yield, fat content and fat yield, standardized conditions, Ayrshire, Guernsey, Holstein-Friesian, Jersey, Brown Swiss and Milking Shorthorn.

"Crossing Angus and Milking Shorthorn cattle: Calf performance to weaning." K.J. Drewry, S.P. Becker, T.G. Martin, L.A. Nelson, *Journal of Animal Science* 46(1):83-95 (1978).

NAL call number: 49 J82

Descriptors: body weight, gain rates, effects of crossbreeding.

"Genetic correlations between milk production and meat production traits in Milking Shorthorn cattle." M.W. Dawson, W.R. Harvey, E.J. Warwick, and R.L. Hiner, *Agricultural Research Service USDA, ARS-NE-61, 1975, 16 p.*

NAL call number: aS21.A75U45 no. 61

Descriptors: Heritabilities of days milked, milk fat, carcassweight, growth.

"Composition of milks of dairy cattle: Protein, lactose, and fat contents and distribution of protein fraction." J. Cerbulis and H.M. Farrell, *Journal of Dairy Science* 58(6):817-827 (1975).

NAL call number: 44.8 J822

Descriptors: beta-lactoglobulin phenotype, Jersey, Brown Swiss, Guernsey, Ayrshire, Milking Shorthorn, Holstein-Friesian, genetic variation.

"Effects of ration energy concentration on growth and carcass composition of different breed types of steers." J.D. Crouse and H.A. Glimp, *Beef Cattle Research Progress Report* Clay Center, Ames, Iowa, 1973, p. 66-70.

Descriptors: Hereford, Aberdeen-Angus and Shorthorn purebreds, Charolais, breed affects on growth rate, carcass traits, different energy levels.

"Dairy cattle breeds: Origin and development." R.B. Becker, University of Florida Press, 1973, 554 p. (ISBN:0-81300-335-0)

NAL call number: SF208.B35

Descriptors: history, dairy cattle breeding and breeds, domestication, Ayrshire, Brown Swiss, Dutch Belted, Guernsey, Friesian and Holstein-Friesian, Jersey, Dairy Shorthorn, Milking Shorthorn, Danish Red and Red-and-White. For each breed, origin and development, importation, development and use in the USA.

"Influence of breed and plane of nutrition on performance of dairy, dual-purpose and beef steers: Birth to 180 days of age." N.W. Hooven, Jr., J. Bond, E.J. Warwick, R.L. Hiner, and G.V. Richardson, *Journal of Animal Science* 34(6):1037-1045 (1972).

NAL call number: 49 J82

Descriptors: comparison study, rate and efficiency of weight gain, Jerseys, Holstein-Friesians, Milking Shorthorns, Aberdeen-Angus, Herefords, 2 planes of nutrition, carcass fat levels.

Milking Shorthorn Journal of the American Milking Shorthorn Breeders Association, v.1-55 (1919-1947).

NAL call number: 43.8 M59

Descriptors: Champions of the breed, sales of animals.

NORMANDE

"Antoine des Courtils (1899-1982)." H. Rouy *Comptes rendus des seances - Academie d'agriculture de France* 68(13):1012-1014 (1982).

NAL call number: 14 P215BC

Descriptors: personal history, Normandy Cattle breeder, France.

"The origins of the Normandy breed of cattle - some little known facts. [Les origines de la race bovine Normande - quelques faits peu connus.]" P. Le Liboux *Elevage et Insemination* 142:3-14 (July 1974).

NAL call number: 43.8 EL22

Descriptors: historical, geographical.

SHORTHORN

"A contribution to the characteristics of the West African Shorthorn breed of the Bos taurus cattle type. 1. Origin, distribution and results of morphological and performance studies." I. Sada and F. Vohradsky, *Agricultura Tropica et Subtropica* 17:125-141 (1984).

NAL call number: SB111 A2P7

Descriptors: morphological data, production characteristics.

"Studies on establishment and history of improvement of the Japanese Shorthorn breed of cattle." I. Takayasu, *Bulletin Faculty of Agriculture, Hirosaki University* 40:105-108 (December 1983).

NAL call number: 22.5 H613

Descriptors: importation, selection, use.

"The Shorthorn comes of age (1822-1843) agricultural history from the herdbook." P.J. Perry, *Agricultural History* 56(3):560-566 (July 1982).

NAL call number: 30.98 AG8

Descriptors: cattle, origin, use, selection, pedigree.

Highlights of Shorthorn History Grant MacEwan, Comprint Publishing, Alberta, Canada, 1982, 256 p.

NAL call number: SF199.S56M3

Descriptors: origins, characteristics, use.

"Breed of the month--Northern Dairy Shorthorn." *The Ark* 2(8): 194-196 (August 15, 1975).

NAL call number: SF105.A74

Descriptor: rare breed, type, use.

The Whitebred Shorthorn. A History of the Breed Whitebred Shorthorn Association Ltd, 147b Botchergate, Carlisle, Cumberland, UK, 1972, 19 p.

NAL call number: SF199.S56W48

Descriptors: origin, history, characteristics, distribution.

History of Shorthorn Cattle [Historia del shorthorn; Raza Durham] M.E. Stanwick, Argentina Rural, Buenos Aires, 1970, 563 p.

NAL call number: SF199.S56S7

Descriptors: origins, historical.

Historic Ravenwood, its Founders and its Cattle: Preceded by a Brief History of the Shorthorn Breed up to the Period of its Introduction into the United States John Ashton, E.W. Stephens Publishing Co., Columbia, MO, 1926, 158 p.

NAL call number: 43 AS3R

Descriptors: origin, cattle breeders, selection, production, use.

"History of Shorthorns in Missouri prior to the Civil War." John Ashton, *Bulletin Missouri State Board of Agriculture* 1924, 87 p.

NAL call number: 43 AS3

Descriptors: development, selection, history, use.

Shorthorn cattle: A Series of Historical Sketches, Memoirs and Records of the Breed and its Development in the United States and Canada Alvin Howard Sanders, Sanders Publishing Co., Chicago, IL, 1916, 840 p.

NAL call number: SF199.S56S2 1916

Descriptors: origin, characteristics, use, pedigree.

Shorthorn Cattle American Shorthorn Breeder's Association, Chicago, IL, 1915, 72p.

NAL call number: 43 AM33 1915

Descriptors: history, development, selection, characteristics, use.

"Shorthorn Cattle in Missouri." Bryant O. Cowan, *Bulletin Missouri State Board of Agriculture* 12:12 (1914), 91 p.

NAL call number: 2 M69B

Descriptors: development, selection, production, history.

The History of Improved Shorthorn or Durham Cattle, and the Kirklevington Herd: From the Notes of the Late Thomas Bates: With a Memoir by Thomas Bell Thomas Bell and Thomas Bates, Robert Redpath Publishers, Newcastle-Upon-Tyne, 1871, 371 p.

NAL call number: RSF199.S56B4

Descriptors: origin, use, history, selection.

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CHICKENS

WHITE LEGHORN

"Absence of endogenous viral genes in an inbred line of leghorn chickens selected for high egg production and Marek's disease resistance." J.S. Gavora, U. Kuhnlein, and J.L. Spencer, *Journal of Animal Breeding and Genetics*

106(3):217-226 (1989).

NAL call number: 442.8 Z35

Descriptors: first known line that is resistant, selection effect.

"Effects of genetic strain, slow versus rapid-feathering maternal genotype, and cage density on the performance of Single Comb White Leghorns." G.B. Havenstein, V.D. Toelle, R.H. Towner, and A. Emsley, *Poultry Science* 68(5):596-607 (1989).

NAL call number: 47.8 AM33P

Descriptors: egg production, comparison study of strain differences, feathering rate, cages.

"The chicken MHC haplotypes: Identification and frequencies of the B haplotypes." G.M. Gebriel, *The Third Egyptian British Conference on Animals, Fish and Poultry Production, 7-10 October 1989, Alexandria, Egypt*, 2:963-970 (1989).

Descriptors: major histocompatibility complex, comparison study of breed differences, graft versus host reactions, immunogenetics.

"Magnitude of genetic influence, cage type, and genotype by cage-type interactions on soft-shell and shell-less egg production." D.L. Patterson and W.M. Muir, *Poultry Science* 65(1):26-33 (1986).

NAL call number: 47.8 AM33P

Descriptors: egg shell quality, genetic effects, single vs. 9 bird colony housing, ovulation rate, heritability, genetic correlation.

"Performance of White Leghorn hens in response to cage density and the introduction of cage mates." P.Y. Hester and E.K. Wilson, *Poultry Science* 65(11):2029-2033 (1986).

NAL call number: 47.8 Am33P

Descriptors: 344, 516 and 1031 cm² per bird, shell quality, comparison study.

"Efficiency of one-and two-stage selection indexes for improvement of net economic merit in White Leghorns." V. Ayyagari, S.C. Mohapatra, G.S. Bisht, T.S. Thiyagasundaram, and D.C. Johari, *Theoretical and Applied Genetics* 70(2):166-171 (1985).

NAL call number: 442.8 Z8

Descriptors: laying hen performance.

"Estimation of heterosis from strain crosses of Single Comb White Leghorns for certain economic traits." I.C. Cheong and S.B. Chung, *Korean Journal of Animal Sciences* 27(3):135-142 (1985).

NAL call number: 49.9 H19

Descriptors: laying performance, egg characteristics, feed consumption, body weight.

"MHC and non-MHC genetic influences on Rous sarcoma metastasis in chickens." W.M. Collins, D.W. Brown, P.H. Ward, W.R. Dunlop, and W.E. Briles, *Immunogenetics* 22(4):315-321 (1985).

NAL call number: QR184.I4

Descriptors: immunogenetics, disease resistance, B complex and non-B complex effects, histocompatibility.

"Studies on the estimates of selection indices and genetic parameters on economic traits and egg compositions in layers." B.C. Sang, *Korean Journal of Animal Sciences* 25(4):355-357 (1983).

NAL call number: 49.9 H19

Descriptors: White Leghorns, Rhode Island Reds, production traits, egg composition.

"Comparison of two strains of White Leghorn pullets under different physical and social environments." Y.P. Lee, *Dissertation Abstracts International* B 41(12):4319-4320 (1981).

NAL call number: Z5055.U49D53

Descriptors: social rank index, floor pens, single housing, relationship of social status to egg production.

"Characteristics of White Leghorn chickens selected for heat tolerance." H.R. Wilson, C.J. Wilcox, R.A. Voitle, C.D. Baird, and R.W. Dorminey, *Poultry Science* 54(1):126-130 (1975).

NAL call number: 47.8 AM33P

Descriptors: environmental and genetic factors.

"Leghorn Fowls, Exhibition and Utility: Their Varieties, Breeding and Management." C.A. House, *The Poultry Press Ltd.*, London, 1927.

NAL call number: 47 H812

Descriptors: standards of perfection, various color forms described.

"Leghorn World" (a monthly), Waverly, Iowa, 1919.

NAL call number: 47.8 L52

Descriptors: a journal of various aspects of raising leghorn chickens.

Standard-Bred Leghorns, Brown, White, Buff, Black and Silver Duckwing Reliable Poultry Journal Publishing Co., Quincy, IL, and American Poultry Publishing Co., Buffalo, NY, 1904.

NAL call number: 47 R272L

Descriptors: origins, history, development, characteristics, breeding.

Leghorn Fowl U.C. Verry, 3rd ed., London, 1893.

NAL call number: 47 V61L

Descriptors: all aspects of color variants, husbandry.

The Quest of the Leghorn: A Book of Few Theories, Many Facts F.H. Ayres, Mercantile Printing House. Hartford, 1880.

NAL call number: 47 AY7

Descriptors: search for birds in zoos, various color variations, costs and marketing, use as a table bird.

The Leghorn of the Past and Present F.H. Ayres, Mercantile Printing House. Hartford 1878.

NAL call number: 47 Ay7L

Descriptors: color variations, egg production qualities.

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HORSES

APPALOOSA

Appaloosa News The Appaloosa Horse Club, Inc. Moscow, Idaho, January-February 1957-present.

NAL call number: 42.8 Ap4

Descriptors: training tips, appaloosas for sale, show information, registration information, photos of champions, club periodical.

Cal-Western Appaloosa Cal-Western Appaloosa, Inc., Lincoln, CA, v. 8(1), January 1972-present.

NAL call number: SF293.A7C3

Descriptors: Appaloosa horse, periodicals.

Canadian Appaloosa Journal Appaloosa Horse Club of Canada Calgary 6(11), November 1973-present.

NAL call number: SF277.A7C3

Descriptors: club news, show listings, sales, periodical.

Studbook and Registry Appaloosa Horse Club, Moscow, Idaho, v. 16, 1975-present.

NAL call number: SF293.A7A7

Descriptors: breed standards, pedigree listings.

The Appaloosa Yearbook R.C. Logan Publishing Co., San Jose, 1972-present.

NAL call number: SF293.A7A6

Descriptors: Appaloosa Horse, yearbooks, horse-shows, pictorial works.

"A new scheme for describing horse coat colour." J.J. Lauvergne, M. Silvestrelli, B. Langlois, C. Renieri, D. Poirel, and G.G.V. Antaldi, *Livestock Production Science* 27(2/3):219-229 (1991).

NAL call number: SF1 L5

Descriptors: pigment patterns, eumelanotic, phaeomelanotic, spotting, Appaloosa.

"The inheritance of the leopard complex of spotting patterns in horses." D.P. Sponenberg, G. Carr, E. Simak and K. Schwink, *Journal of Heredity* 81(4):323-331 (1990).

NAL call number: 442.8 Am3

Descriptors: few-spot leopard, blanket, blanket with spots, varnish roan (or marble), snowflake, frosted, speckled and mottled patterns, inheritance, Welsh Pony, Noriker, Appaloosa, Pony of the America.

"Historical and morphological review of the Appaloosa breed of horse, with consideration of colour inheritance. [Richiami storici, morfologici e considerazioni sulla ereditarieta del mantello nel cavallo di razza Appaloosa.]" G. Lubas and P. Bertani, *Annali della Facolta di Medicina Veterinaria di Pisa* 41:348-355 (1988).

NAL call number: 41.9 P67

Descriptors: coat color inheritance, Italian Appaloosa Association, historical and morphological review.

Appaloosa Journal Appaloosa Horse Club, Inc., Idaho, 1987-current.

NAL call number: SF293.A7A77

Descriptors: sales, breed characteristics, shows, Appaloosa horse periodical.

"The Appaloosa." D. Dodds, *Western Horseman* 65:67-69 (October 1985).

NAL call number: 42.8 W522

Descriptors: characteristics, breed associations.

"Special types of thoroughbred horses in Germany. [Spezial-Pferderassen in Deutschland]". Holger Heck, L.B. Ahnert: Friedberg/Hessen, 1985. (ISBN: 3-92114-259-8)

NAL call number: SF290.G3H4

Descriptors: Achal Tekkiner, Andalusier, Anglo-Araber, Anglo-Normanne, Appaloosa, Budjonnij, Freiburger, Friesen, Hunter, Kladruber, Knapstruper, Lipizzaner, Lusitano, Paint-Horse, Palomino, Peruanischer Paso, Pinto, Polo-Pferde, Quarter-Horse, West German horse breeds.

"The coloured breeds come up horses. [Achtung die Bunten kommen]". H. Kothe, *St. Georg* 82(5):67-73 (1981).

Descriptors: Paints, Pintos, Appaloosas, Achal-Tekkiner, Andalusier, Quarter Horses, Peruanischen Pasos.

"Appaloosa, a breed for improvement. [Appaloosa, una razza da valorizzare.]" R. Baroncini, *Informatore Zootecnico* 27(19):37-38 (October 15, 1980).

NAL call number: 49 IN3

Descriptors: breeding, improvement.

"Appaloosa, a breed to value horses. [Appaloosa, una razza da valorizzare equini.]" R. Baroncini, *Informatore Zootecnico* 27(19):37-38 (October 15, 1980).

NAL call number: 49 IN3
Descriptors: breeding, use.

"Developing spots before the eyes. Appaloosas in Britain," D.W. Hughes, *Country Life* 166(4298):1960-1961 (November 22, 1979).

NAL call number: 80 C83

Descriptors: coat pattern, horse breed.

"Canadian horses old and new." *The Ark* 6(7):222-223 (1979).

NAL call number: QL1 A74

Descriptors: horse breeds, origin, Kanata pony, Appaloosa.

"Horse breeds derived from the old Spanish type. [Informace o plemenech koni s pozustatky starospanelske krve.]" J. Dusek, *Vyzkumna Stanice pro Chov Koni Slatinany* 32:72-81 (1979).

Descriptors: Spanish origin, Andalusian, Sorraia, Kladruby, Lipitsa, Orlov Trotter, Friesian, Frederiksborg, Brazilian, Chilean, Peruvian, Venezuelan Criollos.

"The Appaloosa and Missouri Foxtrotting Horses, in the United States. [Konie Appaloosa i Missouri Foxtrotting Horses]". Z. Marcinkowski, *Kon Polski* 12(2):47 (1977).

NAL call number: SF277.K6

Descriptors: characteristics, use, type.

The Complete Book of the Appaloosa Jan Haddle, A.S. Barnes, South Brunswick, NJ, 1975. 371p.

NAL call number: SF293.A7H28

Descriptors: origin, coat patterns, breeding.

The Appaloosa Bill Richardson, Barnes, South Brunswick, NJ, 1969.

NAL call number: SF293.A7R5

Descriptors: Appaloosa horse.

The Appaloosa: Breed Characteristics and Registration Requirements R.E. Hawkins, Hawkins & Hubbell Publications, Riverside, California, 1964, 63 p.

NAL call number: 42.H31

Descriptors: history, conformation, faults, coat patterns, registration applications, past show champions, clubs.

Appaloosa: The Spotted Horse in Art and History Francis Haines, Amon Carter Museum of Western Art, Fort Worth. University of Texas Press, Austin, 1963, 103 p.

NAL call number: 42.H124

Descriptors: origins, naming, indian tribes, spotted horses in Africa and Asia, Europe and North America, cutting horses, circus horses.

BELGIAN

Studbook on Horses of the Belgian Breed [Stambog over heste af belgisk race] Dansk hesteavl's stambogsudvalg, Copenhagen, Denmark, 1972-present.

NAL call number: SF293.B4D32

Descriptors: Belgian draft horse, studbooks.

"Forestry intensification by pre-skidding with horses to avoid forest damage. [Intensivierung durch waldschonendes Vorrucken mit Pferden.] K. Keilen and F. Diehl, *Allgemeine Forstzeitschrift* (no.16-17):405-407 (1986).

NAL call number: 99.8 AL52

Descriptors: performance and costs of horse skidding, French, Bavarian, Danish, Wurttemberg, Belgian and Black Forest breeds.

The Belgian Draught-Horse [Le cheval de trait belge] Ministere de l'Agriculture, Bruxelles (Belgium), report number: 390C, NV391C, 1986.

Descriptors: videocassette, draught horses, animal power, animal breeding, domestic animals, energy, energy sources, livestock, mammals, perissocactyla, vertebrates, working animals.

"Direct evidence for linkage of roan and extension loci in Belgian horses." D.P. Sponenberg, H.T. Harper and A.L. Harper, *The Journal of Heredity* 75(5):413-414 (September/October 1984).

NAL call number: 442.8 AM3

Descriptors: coat color.

"Preservation of two Dutch horse breeds." R.C. Buis, In: *35th Annual Meeting of the EAAP, The Hague, Netherlands, 6-9 August 1984. Vol. 2. Summaries. Study Commissions. Cattle, Sheep and Goats, Pigs, Horses.* Department of Animal Breeding, Agricultural University, Wageningen, Netherlands, 1984, 2 p.

Descriptors: breeds, endangered, Netherlands, genetic resources, conservation, Dutch Draft, Friesian, Gelderland and Groningen, Dutch Rare Breeds Association.

"Horse logging at Latour." D. McNamara, *California Forestry Note* 88:9 (1983).

Descriptors: skidding, draft animals, Belgian horses, demonstration, California.

"To preserve the present gene pool of livestock. [Sacuvati postojeći fond gena u zootehničkim rezervatima.]" D. Ilancic, *Stocarstvo* 36(3-4):153-156 (1982).

NAL call number: 43.8 ST6

Descriptors: rare breeds, Yugoslavia, livestock, North Star, Furioso and Gidran halfbred horses, Oldenburg, Nonius, Posavina, Trotters, Thoroughbreds, Norics, Bosnian Pony, Lipitsa, Belgian.

"On some disappearing horse breeds in Yugoslavia. [Pasmine konja koje su nestale ili nestaju iz nasih krajeva.]" D. Ilancic, *Stocarstvo* 34(7-8):311-318 (1980).

NAL call number: 43.8 ST6

Descriptors: Posavina, Arab, Mezohegyes Halfbred, North Star, Furioso), Gidran, Nonius, Percheron, Thoroughbred, Trotter, Noric, Bosnian Pony, Lipitsa, Belgian.

"The Belgian half-bred horse. [Le cheval de demi-sang belge.]" J.P. Hachez, *Elevages Belges* 34(2):17-19 (February 1980).

NAL call number: SF105 E4

Descriptors: crossbred Belgian, characteristics, use.

"Lethal dominant roan in horses." H.F. Hintz and L.D. Van Vleck, *Journal of Heredity* 70(2):145-146 (1979).

NAL call number: 442.8 Am3

Descriptors: coat color, Belgian, lethal (Rn) genes.

"Thoroughbred stallions X Polish bred draft-type mares, as riding horses. Use of crossbred horses. [Wykorzystanie koni z krzyzowki-ogier pelnej krwi angielskiej X krajowa klacz pogrubiona-dla celow wierzchowych.]" S. Deskur and A. Sosnowski, *Roczniki Naukowe Zootechniki* 5(2):85-100 (1978).

NAL call number: SF1 R6

Descriptors: Thoroughbred, Sztum, Belgian, Ardennes, Doele, Wielkopolskis, performance, jumping, dressage.

"Advancement and problems of Belgian horse breeding; Session 1 [L'elevage du cheval en Belgique]" G. Van Snick, In: *Annual Meeting of the European Association for Animal Production, Bruxelles (Belgium), 22 August 1977. Commission on Horse Production.*

Descriptors: reproduction, animal breeding, health.

Danish Belgian Draft Horse Yearbook Dansk Belgisk Hesteavl, Denmark, 1973, 1976-1977.

NAL call number: SF293.B4D3

Descriptors: Denmark.

Studbook for Horses of the Belgian Breed 26 [Stambog over heste af Belgisk race. XXVI], Dansk hesteavls stambogsudvalg, Copenhagen, Denmark, 1976, 149 p.

NAL call number: SF293.B4D32

Descriptors: Denmark, pedigrees, sires, dams, owners and breeders.

"Inheritance of coat colour in Belgian horses. [Kleurenvererving van het haarkleed bij het Belgisch Trekpaard]". R. Butaye, *Vlaams Diergeneeskundig Tijdschrift* 43(11):464-486 (1974).

NAL call number: 41.8 V84

Descriptors: colour, inheritance, Belgian, horse, silvering factor.

"Body conformation standards for registered stallions in Moravia. [Standardy telesne stavby plemennych hřebcu pusobicich v moravske chovne oblasti.]" J. Dusek, *Zivocisna Vyroba* 17(7-8):603-613 (1972).

NAL call number: 49.9 C33

Descriptors: halfbred, Belgian, Noric, body measurements, variation, cross breeding, Czechoslovakia.

Studbook for Belgian Horses, XXV [Stambog over heste af belgisk race, XXV.] Dansk hesteavls stambogsudvalg, Copenhagen, Denmark, 1972, 134 p.

NAL call number: SF293.B4D32

Descriptors: Denmark.

Belgian Horses for American Farms Belgian Draft Horse Corporation of America. Wabash, Indiana, 1950.

NAL call number: 42.B413

Descriptors: history, formation of the American Association of Importers and Breeders of Belgian Draft Horses, famous sires, pulling power, farm and city uses, photographs.

Canadian Belgian Stud Book Canadian Belgian Horse Association, National Printers, Limited, Ottawa, Canada, v. 2, 1935.

NAL call number: 42.9 C168 v.2

Descriptors: pictorial, application and membership information, membership listings, index of stallions and mares.

CLEVELAND BAY

Cleveland Bay Horses Anthony Dent, Sporting Book Center, London and New York, J.A. Allen, Canaan, NY, 1978. (ISBN: 0-85131-283-7).

NAL call number: SF293.C6D46

Descriptors: Cleveland Bay horse, history, England, Yorkshire.

"Cleveland Bay horses." A. Dent, *The Ark* 3(10):278-280 (October 15, 1976).

NAL call number: SF105.A74

Descriptors: history, breed origin.

"Cleveland Bay horses." A. Dent, *The Ark* 3(9):254-255 (September 15, 1976).

NAL call number: SF105.A74

Descriptors: rare livestock breeds, origin, progenitors, Great Britain.

"Breed of the month--Cleveland Bay." *The Ark* 2(10):264-266 (October 15, 1975).

NAL call number: SF105.A74

Descriptors: rare breed of horse, characteristics, Great Britain.

The Cleveland Bay Horse: Its History, Evolution and Importance Today Fairfax-Blakeborough, The Council of the Cleveland Bay Horse Society, 1950, p.1-12.

NAL call number: 42.F16

Descriptors: Cleveland, Yorkshire, uses, draft, coach, riding, pack horse, hunting.

American Cleveland Bay Stud Book W.M. Fields and R.P. Stericker (ed.), Cleveland Bay Society of America, State Register Book Publishing House, Springfield, Illinois, 1889, 275 pp.

NAL call number: 42.9 C59

Descriptors: history, list of society officers, pedigree listings, sire, dam, owner and breeders.

HACKNEY

"Methods of development and selection during the formation of Tori horses. [Metody razvedeniya i selektsii pri vyvedenii toriiskoi porody.]" K. Muring, *Konevodstvo i Konnyi Sport* 6:16-18 (1981).

Descriptors: Ardennes, Trakehnen, Hanover, Holstein, Anglo-Arab, East Friesian, Breton, Hackney Tori, Breton Tori, history, USSR.

The High Stepper: The Hackney Horse Yesterday and Today J.A. Allen and Tom Ryder (ed.), New York, 1979, 222 p.

NAL call number: SF293.H2R9 1979

Descriptors: Hackney horse, breeding, history.

"The Norfolk Trotter" M.J. Clayton, *The Ark* 6(3):82-86 (1979).

NAL call number: SF105.A74

Descriptors: history, breed origin, Hackney.

"The Tori stud farm and the Tori horse." [Tori hobusekasvandus ja tori hobusetoug.] O. Nuut, *Teaduslike Toode Kogumik* 48:93-98 (1979).

NAL call number: 20 EE73T

Descriptors: Klepper horse, Estonian Pony, Hackney, Tori, draft type, steeplechasing, breed history.

"Studies on polymorphic blood systems in Dutch horse breeds." R.C. Buis, *Animal Blood Groups and Biochemical Genetics*, 5(Suppl. 1):30 (1974).

NAL call number: QP98 E88

Descriptors: Thoroughbred, Trotter, halfbred, Arab, Welsh, New Forest, Shetland, Fjord, Hackney, gene frequencies, serum proteins, prealbumin, albumin, transferrin, esterase carbonic anhydrase, breed differences.

The Canadian Hackney Stud Book Henry Wade (ed.), Canadian Hackney Horse Society, Ottawa, Canada, v. 1, 1905, 134 p.

NAL call number: 42.9 C162

Descriptors: horse, pedigree information, history, index of breeders and owners, mares, stallions, date of birth, coat color.

livestock record associations.

The American Hackney Stud Book The American Hackney Horse Society, New York, NY, v. 1, 1893.

NAL call number: 42.9 Am34A

Descriptors: history, constitution and by-laws of the American Hackney Horse Society, notes on importation, pictorial, pedigree information, listing of breeders and owners, prize listings.

"The Hackney." Humphrey F. de Trafford (ed.) In: *The Horses of the British Empire* . Vol.II. Walter Southwood & Co., Limited, Craven Street, W.C., 1862, p.1-54.

NAL call number: 42.D48

Descriptors: breed origin, famous sires, pedigrees, show performance records, pictorial.

PERCHERON

Percheron News The Percheron Horse Association of America, Chicago, IL, v.1, 1939-present.

NAL call number: 42.8 P412

Descriptors: show information, photographs of champions, sales, breeders.

"Performance testing the draught breeds." R. Baltakmens *Konevodstvo i Konnyi Sport* (No. 7):19-21 (1987).

Descriptors: performance testing, draught, breed differences, Russian Draft, Soviet Draft, Vladimir, Lithuanian Draft, Latvian, Tori, Zhemaitukai, Percheron, White-Russian Draft, Latvian Ardennes.

"A look abroad: Is the American Percheron Society satisfied. [Coup d'oeil a l'etranger: l'association percheronne americaine est satisfaite.]" *Anon Bulletin d'Information et de Liaison Chevaux Lourds* 4:21-23 (1985).

Descriptors: draft horses, livestock numbers, farm size, exports, North America.

"The aim of current methods of selection of heavy horse breeds in France. [Le point des methodes actuelles de selection des races lourdes en France.]" M. Jussiaux and C. Trillaud-Geyl, In: *Le Cheval: Reproduction, Selection, Alimentation, Exploitation*

Institut National de la Recherche Agronomique, Paris, France, 1984, p. 509-520.

Descriptors: stud books, Breton, Comtois, Ardennes, Auxois, Percheron, Cob and Boulonnais, carcass composition, breed differences, performance testing.

"La fixation de la race percheronne a la fin du 18. siecle." J. Mulliez, *Journee d'Etude Organisee par la Societe d'Ethnozootechnie* 30:3-14 (April 21, 1982).

NAL call number: SF84.E8

Descriptors: France, draught horse, history, origin.

"Establishment of the Percheron breed by the end of the XVIIIth century." J.Mulliez, *Ethnozootechnie* 30:3-14 (1982).

NAL call number: SF84.E8

Descriptors: horses, history, France.

Great Horses of Britain L. Wetherley, Spur Publications, Hindhead, Surrey, UK, 1978. 269 p. (ISBN: 0-90455-834-7)

NAL call number: SF311 W4

Descriptors: large breeds, Shire, Clydesdale, Suffolk Punch and Percheron, history, breeding, management, work and show purposes.

Percheron Horses: Animal Breeding and Production [El percheron produccion, and mejoramiento animal.] L.B. Veronelli, Albatros, Buenos Aires (Argentina), 1977, 178 p.

NAL call number: SF293 P4V4

Descriptors: use, characteristics, selecting, reproduction.

"Testing draft breeds. [Starty na tyazhelovozakh.]" T. Spivak, *Konevodstvo i Konnyi Sport* 12:21-22 (1976).

Descriptors: performance testing, cross breeding, Lithuanian Draft, Latvian Coach, Vladimir Draft, Soviet Draft, Tori, Percheron, Zhemaitukai and Russian Draft breeds.

French Horse Breeds [Races chevalines en France.] E. Quittet and H. Blanc, La Maison Rustique, Paris, France, 1974, 72 p.

NAL call number: SF291 Q8 1974

Descriptors: Breton, Percheron, French Saddle Horse, French Ardennes, French Trotter, English Thoroughbred.

"Performance of different horse breeds under free range conditions. [Opyt porodoispytaniya loshadei v usloviyakh tabunno-tebenevochnogo sodержaniya.]" Yu. N. Barmintsev and T.S. Malakhova, *Issledovatel'skii Institut Konevodstva* 28(211):41-60 (1974).

Descriptors: body weight, body measurements, horse breeds, crosses involving, Kazakh, Budennyi, Don, Percheron, Tori, Lithuanian draft, Latvian coach, Russian Draft, Soviet Draft, Vladimir Draft.

"Normal and the Norman Horse Industry: Percherons of Today." J.M. Dillon, *The Journal of the Illinois State Historical Society* 29(4):1-39 (January 1937).

NAL call number: 42 D58

Descriptors: history of local horse industry, E.Dillon & Co., importers and breeders, famous sires and mares.

Hartman Stock Farm S.B. Hartman and James A. Lawrence (ed.), Springfield Pub. Co., Springfield, OH, 1905, 189 p.

NAL call number: SF107.H3 R

Descriptors: importing, breeding, Percheron draft and German coach horses, history.

The Percheron Horse Jefferson K. Clark, R.P. Studley & Co., Printers and Lithographers, St. Louis, MO, 1869.

NAL call number: 42 C543

Descriptors: characteristics, strength, docility, endurance, speed, lithograph.

The Percheron Horse Charles du Huys, Orange Judd & Company, New York, 1868, 100 p.

NAL call number: 42 D88

Descriptors: origin, cause of degeneration, regeneration, improvement through cross breeding and selection, coat color, breeding, speed, endurance.

SHIRE HORSE

"The esterase system in Shire horses." A.M. Scott, *Current Status of Equine Blood Typing: Proceedings II International Seminary [Stato attuale ricerche sulla tipizzazione sangue equini: atti del II Seminario Internazionale] Catania, May 29, 1980.* Lito Felici, Pisa, 1981, p. 53-62.

NAL call number: QP98.C87

Descriptors: phenotypes, gene frequency.

Great Horses of Britain L. Wetherley, Spur Publications, Hindhead, Surrey, 1978, 269 p.

NAL call number: SF311 W4

Descriptors: History and use, Shire, Clydesdale, Suffolk Punch, Percheron, distinct breed in 19th century.

The Shire Horse: A History of the Breed, the Society and the Men K. Chivers and J.A. Allen, 1976. (ISBN 0-85131-245-4)

NAL call number: SF293 S56C47

Descriptors: History of the breed in England, used for hauling heavy loads for short distances, travel, stallions, Breed Society.

Shire Horse Stud Book Shire Horse Society, London, v.1-93, 1884-1969.

NAL call number: 42.9 SH6S

Descriptors: births by sex and parentage.

The Shire Horse Society, 1878-1928 A.B. Charlton, W. Clowes & Sons Ltd., 1929.

NAL call number: 42.9 C38

Descriptors: information about the Society, history, constitution, membership, organizational structure.

The Great Horse or the War Horse: From the Time of the Roman Invasion till its Development into the Shire Horse 2nd

ed. Sir W. Gilbey, Vinton & Co. Ltd., London, 1899, 69 p.

NAL call number: 42 G37G

Descriptors: history in Britian, development during the early and middle ages, special individual horses described.

The Old English War Horse or The Great Horse as it Appears, at Intervals, in Contemporary Coins and Pictures During the Centuries of its Development into the Shire Horse Sir W. Gilbey, Vinton & Co., London, 1888.

NAL call number: 42 G37

Descriptors: numerous plates depicting the shire horse in a variety or art forms.

The History of the Shire Horse and the Origin of the English Cart-Horse Society F. Street; Cassell, Pelter, Galpin & Co.; London, Paris, New York; 1883.

NAL call number: 42 ST8H

Descriptors: history, breeding cart horses, origin of the English Cart Horse Society.

WELSH PONY

"The inheritance of the leopard complex of spotting patterns in horses." D.P. Sponenberg, G. Carr, E. Simak, and K. Schwink, *Journal of Heredity* 81(4):323-331 (1990).

NAL call number: 442.8 AM3

Descriptors: patterns of spots, coat color, inheritance, single dominant allele (Lp), horse breeds: Welsh pony, Noriker, Appaloosa, Pony of the American Breeds.

"The results with breeding a small saddle horse. [Vysledky sl'achtenia maleho sportoveho kona]". D. Medvecký, I. Masek, and I. Vysoka, *Nas Chov* 49(10):470-472 (1989).

NAL call number: 49 N17

Descriptors: mixed breed, Welsh Pony stallions, Arab mares, Czechoslovakian Saddle Pony, dimensions, speed.

"Self-grooming by mares and foals of the Welsh pony (*Equus caballus*)." S.L. Crowell-Davis, *Applied Animal Behaviour Science* 17(3/4):197-208 (June 1987).

NAL call number: QL750.A6

Descriptors: young horses, self care, animal behavior.

"Play development in Welsh pony (*Equus caballus*) foals." S.L. Crowell-Davis, K.A. Houpt, and L. Kane, *Applied Animal Behaviour Science* 18(2):119-131 (1987).

NAL call number: QL750.A6

Descriptors: play behavior, sex differences, types of play, use of inanimate objects.

"Spatial relations between mares and foals of the Welsh pony (*Equus caballus*)." S.L. Crowell-Davis, *Animal Behaviour* 34(4):1007-1015 (1986).

NAL call number: 410 B77

Descriptors: distance between animals, animal behavior.

"Breeding a small saddle horse. [Sl'achtenie maleho sportoveho kona]." D. Medvecký, *Nas Chov* 45(4):171-172 (1985).

NAL call number: 49 N17

Descriptors: Welsh Pony stallion-Arab mare cross, suitable for children, dimensions.

"Deep freezing of horse embryos." M. Czlonkowska, M.S. Boyle, and W.R. Allen, *Journal of Reproduction and Fertility* 75(2):485-490 (1985).

NAL call number: 442.8 J8222

Descriptors: Welsh Pony, Welsh Cob, frozen storage of embryos, embryo transfer, pregnancy rate of recipient mares.

Welsh Champions Royal Welsh Show Champion Welsh Mountain Ponies Thirty-Five Years, 1947-1982 J.A. Allen, Wynne Davies, London, 1984, 63 p. (ISBN: 0-85131-396-5)

NAL call number: SF315.2.W4D

Descriptors: best of breeds book for the U.K.

The Welsh Pony Stud Book Welsh Pony and Cob Society, v.1-66, 1902-1984.

NAL call number: 42.9 W46

Descriptors: register of births by sex, sires, dams.

"Studies on polymorphic blood systems in Dutch horse breeds." R.C. Buis, In: *Animal Blood Groups and Biochemical Genetics, 14th International Conference on Animal Blood Groups and Biochemical Polymorphisms* 5(suppl.1):30 (1974).

NAL call number: QP98 E88

Descriptors: Thoroughbred, Trotter, halfbred, Welsh pony, New Forest pony, Shetland, Fjord, Hackney, a comparison study of various blood constituents.

The Stud Book of the Welsh Pony and Cob Society of America The Welsh Pony and Cob Society of America v.1-10, 1908-1963.

NAL call number: 42.9 W461

Descriptors: register of birth by sex, sires and dams.

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PIGS

GLOUCESTSHIRE OLD SPOT

"Breed structure of rare pigs. Implications for conservation of the Berkshire Tamworth, Middle White Large, Black Gloucester Old Spot, British Saddleback, and British Lop." S.J.G. Hall, *Conservation Biology* 3(1):30-38 (1989).

NAL call number: QH75 A1C5

Descriptors: registration details, inbreeding rates.

"RBST pig bloodline survey." *The Ark* 12(2):47-50 (1985).

NAL call number: SF105.A74

Descriptors: current status of blood lines, Gloucester Old Spots, Middle White, Tamworth, Large Black, Berkshire.

"Ideal (swine) breed for back-to-basics. The Gloucester Old Spot." J.L. Jones, *Country Life* 167(4323):1529-1530 (June 26, 1980).

NAL call number: 80 C83

Descriptors: minor swine breed.

"Response to different rates of energy intake by Gloucester Old Spot and Large White boars and gilts given the same total feed allowance." J.D. Wood and G.A. Lodge, *Animal Production* 28(pt.3):371-380 (June 1979).

NAL call number: 49 AN55

Descriptors: swine feed comparison study.

"The influence of breed on the carcass and eating quality of pork." J.D. Wood and E. Dransfield, *Journal of the*

Science of Food and Agriculture 30(5):493-498 (May 1979).

NAL call number: 382 SO12

Descriptors: large White Gloucester Old Spot, various swine cross breeds.

"Age, weight or total feed intake as bases for the performance testing of growing pigs." G.A. Lodge, D. Lister, J.D. Wood, and M.S. Wolynetz, *Animal Production* 27(3):345-354 (1978).

NAL call number: 49AN55

Descriptors: Gloucestershire Old Spot, Large White, comparison study-age, weight, feed intake.

"Breed of the month--Gloucester Old Spot." *The Ark* 4(2):39-40 (February 15, 1977).

NAL call number: SF105.A74

Descriptors: native British pig, origin, description, litter size, boar performance tests.

Herd Book. Gloucestershire Old Spots Pig Society, Taunton, England, v.1-16 (1915-1950).

NAL call number: 46.9 G51

Descriptors: births by sex, location, parentage.

LINCOLNSHIRE CURLY COAT

A History of the British Pig J. Wiseman, Duckworth, London, 1986, p. 118. (ISBN: 0-7156-1987-X)

NAL call number: SF396 G7W5

Descriptors: history, breeds, pigs, United Kingdom, books, rare.

"Farewell to the Lincolnshire Curly Coat." R. Hunt, *The Ark* 10(4):119-121 (April 15, 1983).

NAL call number: SF105.A74

Descriptors: swine, breed history.

"A conservation scheme for 4 pig breeds. [Un plan de sauvegarde pour 4 races porcines]."

C. Texier, *Techni-Porc* 5(2):7-13 (1982).

NAL call number: SF391 T4

Descriptors: breeds, rare, conservation, in france, pig, france, rare breeds, West French White, Limousin, Gascony, and Basque Black Pied.

Lincolnshire Curly-Coated Breeders' Association Herd Book Lincolnshire Curly-Coated Breeders' Association Incorporated, F. Swards, Sleaford, England, v. 1-10, 1907-1921.

NAL call number: 46.9 L63

Descriptors: show, members, boars, sows, society, breeding stock, register.

The Lincolnshire Curly-Coated Pig: The Bacon Pig of Lincolnshire Lincolnshire Curly-coated Pig Breeders Association, F. Swards, Sleaford, England, 1909.

NAL call number: 46.L63

Descriptors: comparison, pig, breed, British, weight gains, carcass.

WESSEX SADDLEBACK

The Wessex Saddleback Pig Society Herd Book Wessex Saddleback Pig Society, Bennett Brothers, Salisbury, v.1-10, 1919-1928.

NAL call number: 46.9 W51

Descriptors: show, members, boars, sows, society, breeding stock, register.

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SHEEP

CHEVIOT

"Restriction fragment length polymorphisms of the scrapie-associated fibril protein (PrP) gene and their association with susceptibility to natural scrapie in British sheep." N. Hunter, J.D. Foster, G. Benson and J. Hope, *Journal of General Virology* 72(6): 1287-1292 (1991).

NAL call number: QR360 A1J6

Descriptors: sheep, breeds, genetics, biotechnology, scrapie, susceptibility, UK, restriction fragment length polymorphism, scrapie agent, prions, cheviot.

"Linkage of the gene for the scrapie-associated fibril protein (PrP) to the Sipgene in Cheviot sheep." N. Hunter, J.D. Foster, A.G. Dickinson and J. Hope, *The Veterinary Record* 124(14):364-366 (April 8, 1989).

NAL call number: 41.8 V641

Descriptors: sheep, Cheviot, scrapie agent, scrapie, linkage, genes, glycoproteins, disease resistance, nucleic acid probes.

"Genetic control of scrapie in Cheviot and Suffolk sheep." J.D. Foster and A.G. Dickinson, *The Veterinary Record* 123(6):159 (August 6, 1988).

NAL call number: 41.8 V641

Descriptors: sheep, Suffolk, Cheviot, scrapie, genetic control.

"A note on the comparative reproductive performance of Friesland X North Country Cheviot and North Country Cheviot ewes on two levels of pasture prior to mating." R.G. Gunn, *Animal Production* 42(pt.2):287-289 (April 1986).

NAL call number: 49 AN55

Descriptors: ewes, Cheviot, crossbreeds, reproductive performance, litter size, grazing.

"Effect of feeding and season on fleece characteristics of Cheviot, Drysdale and Romney hogget wool." R.M.W. Sumner, *Proceedings of Annual Conference - New Zealand Society of Animal Production* 43:79-82 (1983).

NAL call number: 49.9 N483

Descriptors: sheep, New Zealand.

British Sheep National Sheep Association, Tring, UK, 1979, p. 195.

Descriptors: United Kingdom, Cheviot.

"Additive and non-additive genetic effects on growth traits in matings among Romnelet, Columbia, Suffolk, and North Country Cheviot breeds." J.A. Vesely, *Canadian Journal of Animal Science* 57(2):233-238 (1977).

NAL call number: 41.8 C163

Descriptors: Cheviot, genetics.

"Seasonal fleece changes in some Cheviot sheep." M.L. Ryder, *Journal of Agricultural Science* 83(1):93-99 (1974).

NAL call number: 10 J822

Descriptors: wool, fiber, season.

Cheviots W.T. Hyde, K.B. Clark and G.W. Lough, The American Cheviot Sheep Society Incorporated, NY, 1922, p. 16.

NAL call number: 45.AM3

Descriptors: history, description, scale of points, rules, breeders, stock, hardiness, fleece.

The Cheviot Sheep C.S. Plumb, Home Journal Press, Indiana, 1899.

NAL call number: 45.P73

Descriptors: origin, history, characteristics, description, uses.

Flock Book of the National Cheviot Sheep Society H.H. Keim (ed), Illinois State Register Printing Company, IL, 1898.

NAL call number: 45.9 AM3

Descriptors: history, rules, society, scale of points, breeding stock, production.

The Flock Book of the Cheviot Sheep Breeder's Association of the United States and Canada E.J. Bruce (ed.), The Herald Press, NY, 1893.

NAL call number: 45.9 AM3

Descriptors: members, rules, judging, show, entries, breeding.

COTSWOLD

"Black Cotswolds of North America: Evolution of a Sub-Breed." P. Frisella, In: *Colored Sheep and Wool: Exploring their Beauty and Function: The Proceedings of the World Congress on Coloured Sheep* K. Erskine (ed.), 1989, p. 67-68. (ISBN: 0-96087-362-7)

NAL call number: SF371.2.W67

Descriptors: sheep, North America, breeds, evolution, America, animals, artiodactyla, biology, bovidae, domestic animals, livestock, mammals, meat animals, ruminants, vertebrates, wool producing animals.

The Cotswold Flock Book T. Brown, B. Charles, H.J. Elwes, T.R. Hulbert, R. Swanwick and J.H. Yeomans (eds.), Baily and Son, Cirencester, England, 1892.

NAL call number: 45.9 C82F

Descriptors: register, origin, history, present position, sheep.

LEICESTER

"Inheritance of a major gene for excessively lustrous wool in sheep." H.T. Blair, *The Journal of Heredity* 81(3): 220-222 (May/June 1990).

NAL call number: 442.8 AM3

Descriptors: sheep, Border Leicester, romney, animal breeding, inheritance, progeny, genes, mutations, fleece, wool production, liveweight, dominant genes.

"Maternal behavior in Border Leicester, Glen Vale (Border Leicester derived) and Merino sheep." G. Alexander, D. Stevens, L.R. Bradley, and S.A. Barwick, *Australian Journal of Experimental Agriculture* 30(1):27-38 (1990).

NAL call number: 23 AU792

Descriptors: ewes, Australian Merino, Border Leicester, crosses, maternal behavior, paddocks, selection.

"Social organization in young Merino and Merino X Border Leicester ewes." J.J. Lynch, G.N. Hinch, M.F. Bouissou, R.L. Elwin, G.C. Green, and H.I. Davies, *Australia Applied Animal Behaviour Science* 22(1):49-63 (1989).

NAL call number: QL750.A6

Descriptors: ewes, Australian Merino, Border Leicester, crossbreeds, social structure, territory, docility.

"A comparison of cross-bred ewes raised from Welsh Mountain dams by three sire breeds: Cambridge, Border Leicester and Lleyn." J.B. Owen and C.J. Whitaker, *The Journal of Agricultural Science* 109:159-164 (August 1987).

NAL call number: 10 J822

Descriptors: dams (mothers), ewes, sheep breeds, crosses, birth weight, body weight, slaughter weight, survival,

lambing rate.

"Formation of new breeds." In: *New Techniques in Sheep Production* I. Fayez, M. Marai and J.B. Owen, Butterworths, London, 1987, p. 147-156.

NAL call number: SF375 N43

Descriptors: sheep breeds, meat, colored, UK, ABRO Damline, Leicester, Suffolk, Meatline, Cambridge, breeds, sheep, animal production.

"History of the English Leicester." A.B. Coleman, *The Ark* 14(12):416-420 (1987).

NAL call number: SF105.A74

Descriptors: sheep breeds, Leicester.

"Comparison of Border Leicester and Finnsheep crosses: III. Market lamb and wool production per ewe." G.E. Dickerson, A.F. Magld, V.B. Swanson, J.S. Brinks and G.M. Smith. ARS-United States Department of Agriculture, Agricultural Research Service (20):7-8 (December 1984).

NAL call number: aS21.R44A7

Descriptors: sheep breeds, Border Leicester, crossbreds, carcass quality.

"Comparison of Border Leicester and Finsheep crosses: II. Productivity of crossbred ewes." G.E. Dickerson, A.F. Magld, V.B. Swanson, J.S. Brinks and G.M. Smith, ARS-United States Department of Agriculture, Agricultural Research Service. (20):5-6 (December 1984).

NAL call number: aS21.R44A7

Descriptors: sheep breeds, Border Leicester, crossbreds, reproductive performance.

"Comparison of Border Leicester and Finnsheep crosses: I. Survival, growth and carcass traits of crossbred lambs." G.E. Dickerson, A.F. Magld, V.B. Swanson, J.S. Brinks and G.M. Smith, ARS-United States Department of Agriculture, Agricultural Research Service (20):4 (December 1984).

NAL call number: AS21.R44A7

Descriptors: sheep breeds, crossbreds, survival, growth, carcass quality.

"The greyface flock at Glenwherry." J.K. Wilson, In: *Agriculture in Northern Ireland* Her Majesty's Stationary Office, Belfast, 1984, p. 106-109.

NAL call number: 256.13 AG82M

Descriptors: Border Leicester, Bluefaced Leicester, sheep breeds, sheep management.

"Sheep production: I. Replacement stock for lowland flocks." J.H.D. Irwin, In: *Agriculture in Northern Ireland* Her Majesty's Stationary Office, Belfast, 1984, p. 102-105.

NAL call number: 256.13 AG82M

Descriptors: sheep breeds, Scottish Blackface, Border Leicester, Suffolk, Texel, lamb production.

"Inheritance of wear rate in the teeth of sheep." H.H. Meyer, W.M. Aitken, and J.E. Smeaton, *Proceedings of the Annual Conference - New Zealand Society of Animal Production* 43:189-191 (1983).

NAL call number: 49.9 N483

Descriptors: Romney, Border Leicester, Merino, breeds.

"Performance tests of ram lambs 1983." N.E. Jensen, *Beretning fra Statens Husdyrbrugsforsoeg (Denmark)* 557:35 (1983).

Descriptors: Leicester, Oxforddown, Texel, White-headed Marsh, weight gain, growth index, breeding value, breed average, ultrasonic equipment, Danscanner, feed consumption, pellets.

"Report on controlled herds 1981." (Beretning overtilsynsbesaetninger 1981). J. Mortensen, *Tidsskrift for Faareavl* 47(3):37-47 (1982).

Descriptors: sheep, Denmark, 50 herds, Oxforddown, Shropshire, Leicester, Texel, Dorset Horn, Marsk, Rygja, Saane.

"Evaluation of the Collinsville Merino and its crosses with the Booroola and the Border Leicester in southern N.S.W." B.J. McGuirk, I.D. Killeen, G. Caffery, C. Langford, L.R. Piper and B.M. Bindon, *Workshop on the Booroola Merino*, Armidale, N.S.W. Australia, August 24, 1980.

Descriptors: performance test.

"Comparative productivity of super-fine Merino and Border Leicester breeding ewes grazing semi-improved native pasture on the New England Tablelands, New South Wales." R.M.W. Sumner and S.K. Stephenson, *Australian Journal of Experimental Agriculture and Animal Husbandry* 19(99):402-406 (August 1979).

NAL call number: 23 AU792

Descriptors: performance, wool quality, reproduction, Australia.

"Evaluation of Border Leicester and Targhee crossbred ewes for the Pacific Coastal Northwest." M.R. Dally and W. Hohenboken, Circular of Information, Oregon, Agricultural Experiment Station, (674):4 (November 1978).

NAL call number: 100 OR3C

Descriptors: Sheep, breed performance.

"New Australasian breeds of dual or special purpose sheep." C. Anon, *Wool Technology and Sheep Breeding* 26(3):5-18 (September 1978).

NAL call number: 304.8 W888

Descriptors: Border Leicester 'Improved', Coopworth, Cormo, Dormer, Drysdale, Perendale, Tukidale, White Suffolk, Gromark, Wiltshire Horn, breeding, characteristics, uses.

"Breed of the month--Leicester longwool." *The Ark* 5(3)78-79 (1978).

NAL call number: SF105.A74

Descriptors: old rare sheep breed of England, characteristics, history.

"Wool yield and characteristics of Dorset, Leicester and Suffolk breeds and their 'DLS' cross." M.H. Fahmy, *Journal of Agricultural Science* 88(3):651-653 (1977).

NAL call number: 10 J822

Descriptors: crossbreeding, fleece, characteristics.

American Leicester Record A.J. Temple (ed.), Brotherhood Stream Print, IL, v.1-15, 1893-1927.

NAL call number: 45.9 AM32

Descriptors: pure breed, breeders, breeding stock, register.

Leicester Sheep Breeders' Association: History of the Breed Leicester Sheep Breeders' Association, Roselea, Hunmanby, Filey, Yorkshire, England, 1945.

NAL call number: 45.L53

Descriptors: history, pedigree, description, purposes, value, meat, wool.

The Leicester Flock Book Leicester Sheep Breeders' Association, Brumby and Clarke, Ltd., Hull, England, 1898.

NAL call number: 45.9 L53

Descriptors: description, register, breeders, members, rules, association, regulations.

Flock Book of Improved Leicester Sheep Improved Leicester Sheep Breeders' Association, B. Fawcett and Company, Driffield, England, 1893.

NAL call number: 45.9 L53

Descriptors: description, register, breeders, members, rules, association, regulations.

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