Selected Readings on the History and Use of Old Livestock Breeds

September 1991

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And

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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 complement 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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- Aberdeen-Angus  |  Ayrshire  |  Devon  |  Guernsey  |  Herefords  |  Highland  |  Milking Shorthorn  |  Normande  |  Shorthorn

**CHICKENS**

- White Leghorn

**HORSES**
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**PIGS**

Gloucestershire Old Spot | Lincolnshire Curly Coat | Wessex Saddleback

**SHEEP**

Cheviot | Cotswold | Leicester

**GENERAL**

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.

NAL call number: SF105.3 G4
Descriptors: conservation of genetic resources.

NAL call number: SF105.3 G4
Descriptors: genetic resources, germplasm conservation, livestock.

NAL call number: SF105.3 G4
Descriptors: genetic resources, status in Australia and New Zealand, livestock.

NAL call number: SF199 D4C8
Descriptors: historical, origins, breed comparison, crossbreeding.

NAL call number: SF105.3 G4
Descriptors: Spain, cattle, sheep, genetic resources.


Descriptors: genetic resources, livestock.
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.

NAL call number: SF105.A74
Descriptors: pigs, pedigree, inbreeding.

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

NAL call number: SF198.P87 1987
Descriptors: breeds of cattle, characteristics, use.

NAL call number: 49.9 C33
Descriptors: livestock, germplasm resources, pigs, white pigs.

NAL call number: SF492 C47 1987
Descriptors: poultry breeds, statistics.

NAL call number: SF105.A74
Descriptors: history, Combined Flock Book of the UK Rare Breeds Survival Trust, goats, sheep.

NAL call number: QL88 W3
Descriptors: livestock, germplasm, conservation.

Descriptors: history, classification, characteristics.

NAL call number: QH431 I52
Descriptors: proposal for a computerized bibliographic database, germplasm resource management.

NAL call number: SF105.A74
Descriptors: genetic resources conservation.
"Selection methods and breeding programmes used in the conservation of rare breeds of coloured sheep." 
NAL call number: SF105.A74
Descriptors: germplasm conservation, wool producing breeds, breeding strategies.

Descriptors: livestock genetic resources, germplasm conservation.

NAL call number: 41.8 V641
Descriptors: ewes, dystocia, structure, parturition complications, birth canal size, dystocia.

NAL call number: SF105.A74
Descriptors: origins and development of breeds, United Kingdom.

NAL call number: 49 T445
Descriptors: issues of germplasm conservation, freezing, semen, ova, cattle.

NAL call number: SF371.2 W67 1984
Descriptors: utility of regionally adapted cattle, germplasm conservation, issues.

NAL call number: 49 T445
Descriptors: strategies for germplasm conservation, cattle, swine, sheep, goats, horses, preservations of semen and ova.

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.

NAL call number: SF105.A74
Descriptors: Lleyn, germplasm conservation, unique breed characteristics.

NAL call number: 49 IN3
Descriptors: rare breeds, sheep, cattle, Great Britain.
NAL call number: SF84.E8
Descriptors: genetic resources, conservation of livestock germplasm.

NAL call number: SF84.E8
Descriptors: genetic resources, germplasm conservation, France.

NAL call number: SF84.E8
Descriptors: genetic resources, germplasm conservation, goats, France.

NAL call number: SF105.A74
Descriptors: poultry breeds, germplasm conservation, status.

NAL call number: QP98.A1A5
Descriptors: blood types, polymorphism, blood proteins.

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

NAL call number: 41.8 N81
Descriptors: ova, storage by freezing, germplasm conservation.

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

NAL call number: SF1.L52
Descriptors: cattle, sheep, United Kingdom.

NAL call number: 23 Q33
Descriptors: origins, history, Polled Hereford, Shorthorn, Polled Shorthorn, Aberdeen-Angus, Red Poll, Murray Grey, Devon, Polled Devon, Galloway, South Devon, Sussex, Welsh Black, Brahman, Droughtmaster, Santa Gertrudis,

Descriptors: Spain, cattle, breed records.

NAL call number: SF1 F64 no.24
Descriptors: ducks, geese, turkeys, rabbits, sheep, cattle, germplasm conservation.

NAL call number: QP98.A1A5
Descriptors: genotypes, blood groupings, blood proteins.

NAL call number: SF105.A74
Descriptors: rare breeds of livestock, cattle, sheep, UK, Rare Breeds Survival Trust.

NAL call number: SF1 F64 no.24
Descriptors: livestock germplasm resources, semen bank.

Descriptors: Spain, records.

NAL call number: 14 F8462
Descriptors: role of zoos, germplasm conservation, inbreeds, sheep, goats, cattle, pigs, horses.

NAL call number: QL88 W4
Descriptors: livestock.

NAL call number: SF105.A74
Descriptors: status of rare breeds in France including cattle, sheep, goats, horses.

NAL call number: S590 S625
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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.

NAL call number: 49 Z8
Descriptors: germplasm conservation issues, livestock.

NAL call number: SF105.A74
Descriptors: swine.

NAL call number: SF105.A74
Descriptors: wool production.

NAL call number: SF105.A74
Descriptors: old rare sheep breed of England, characteristics, history.

NAL call number: SF105.A74
Descriptors: breeds of sheep, characteristics, use, production.

NAL call number: 41.8 R32
Descriptors: selection criteria, genetic characteristics, breed origins, Friesian, Normandy, Montbeliard.

NAL call number: HV4708 A6
Descriptors: records, livestock breed societies.

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.

NAL call number: SF391.P5
Descriptors: swine.

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.]" 
NAL call number: S711 A2


NAL call number: SF105.A74

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

NAL call number: SF105 U5

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

NAL call number: SF61 C59

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

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.

NAL call number: SF208 B35

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

NAL call number: S560 R4 N.13


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.

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 Gertrudis 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.

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.

NAL call number: 42 R39
Descriptors: origins, famous horses of the breeds, ponies, draft horses, hunting breeds.

NAL call number: 40 Sh2
Descriptors: breeds of livestock.

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.

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.
CATTLE

ABERDEEN-ANGUS

NAL call number: SF199 A14H57 1981
Descriptors: origins, historical, characteristics, production, use.

Descriptors: history, trends, use.

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

NAL call number: 49 J82
Descriptors: birth and viability data, weaning data, carcass data Aberdeen-Angus, Polled Hereford.

NAL call number: 43 AM324A
Descriptors: origin, selection, use, characteristics.

NAL call number: 43 C85A
Descriptors: cattle breeder, selection, history, production.

NAL call number: 43 AM3A 1950
Descriptors: management, breeding, performance, selection.

NAL call number: 43 AM3B 1949
Descriptors: origins, selection, use, characteristics.

NAL call number: 43 C85
Descriptors: history, breeders, pedigrees, performance.

NAL call number: 43 AM3BR 1943
Descriptors: management, production, husbandry, selection, breeding.
NAL call number: 43 AM3 ed.4
Descriptors: origin, characteristics, selection, use.

NAL call number: 43.9 AM32
Descriptors: parentage, bloodlines, pedigrees.

NAL call number: 43.9 AM32S
Descriptors: show records.

NAL call number: 43 M14H
Descriptors: origin, breeders, characteristics, use.

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'skokhozyaistvennych Zhivotnykh 15: 46-47 (1976).
Descriptors: semen data, bulls, local and imported.

NAL call number: 43.8K14
Descriptors: multi-purpose or single-purpose breeds, Finnish Ayrshire, tabular data, milk yield, milk composition.

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


NAL call number: SF199.A9B68

Descriptors: origins, characteristics, uses.


Descriptors: history, USSR.


NAL call number: 43 AY72J

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


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.


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.


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.
NAL call number: 43.9 SA4R
Descriptors: herd records.

DEVON

NAL call number: 30.98 AG82
Descriptors: history, characteristics, use.

NAL call number: QP98 A1A5
Descriptors: Blood data, frequencies, British South Devon, African South Devon, breed evolution, geographical and historical evidence.

NAL call number: SF105.A74
Descriptors: rare breed, historical uses, characteristics.

Descriptors: milking devon.

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.

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.

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
AU foot in England W.J. Hudson, New York, NY.
Descriptors: Milking Devon.

GUERNSEY

NAL call number: 43.9 EN33
Descriptors: herdbook.

NAL call number: 43 EN33
Descriptors: use, characteristics, performance, origin.

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.

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.

NAL call number: 43 C122
Descriptors: cattle breeder, animal breeding, performance, selection.

NAL call number: 43.9 C166
Descriptors: herdbook.
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NAL call number: 43 AM35S 1919
Descriptors: origins, type, use, records.

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.

NAL call number: 43 H33
Descriptors: origin, characteristics, production, use.

**HEREFORDS**

NAL call number: SF199.H4H4
Descriptors: origins, characteristics, selection, cattle breeders.

NAL call number: SF199.H4B37
Descriptors: historical, Hereford cattle breeder.

NAL call number: SF207.B4
Descriptors: historical, animal breeding, selection.

NAL call number: SF199.H4O69 1981
Descriptors: Hereford cattle breeders, history.

NAL call number: 49 C29
Descriptors: cattle, origins, characteristics, use.

NAL call number: 23 AU 783
Descriptors: inbreeding, generation length, imported Herefords.

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"**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.


**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,
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Hereford Cattle, 1882-1919  
NAL call number: 43 AM38  
Descriptors: history, origin, use, breeding.

The American Hereford Record and Hereford Herdbook  
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  
NAL call number: 43 SA5S  
Descriptors: origins, use, characteristics, history, management.

History of Hereford Cattle  
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  
NAL call number: 43 M612  
Descriptors: origins, historical, herds, breeders, characteristics.

Herdbook of Hereford Cattle  
NAL call number: 43.9 H42H  
Descriptors: herdbook.

HIGHLAND

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

NAL call number: 105.8 G36E  
Descriptors: extensive cattle farming, natural pasture, Galloway, Highland cattle, profitability.

NAL call number: QL750.A6
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Descriptors: Social behavior, reproductive performance agonistic behavior herd structure.

Descriptors: performance on pasture.

NAL call number: 43.9 H53
Descriptors: registry of births and parentage.

NAL call number: S542.C29R4
Descriptors: Hereford, Highland, Highland X Hereford, Hereford X Highland, carcass weight, milk production, comparison study.

NAL call number: 80 C83
Descriptors: breeding these unusual cattle.

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

NAL call number: 49 J82
Descriptors: Highland Cattle, Zebus, type of feed, body temperature, effects of ambient temperature.

NAL call number: 43.9 H53
Descriptors: registry of births, parentage.

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.

NAL call number: 1 AN 5C no.88

**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.

NAL call number: Z5055.U49D53
Descriptors: crossing, calf production, body weight, longevity; cattle breeds.

NAL call number: 44.8 J822
Descriptors: predicted differences, breed differences, Milking Shorthorn, Holstein-Friesian, progeny testing, milk production.

NAL call number: 41.8 C163
Descriptors: milk production, milk fat, genetic effects, heritability.

NAL call number: 44.8 J822
Descriptors: milk yield, comparison study.

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.

NAL call number: 49 J82
Descriptors: body weight, gain rates, effects of crossbreeding.

NAL call number: aS21.A75U45 no. 61
Descriptors: Heritabilities of days milked, milk fat, carcass weight, growth.

NAL call number: 44.8 J822

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

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.

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.

NAL call number: 43.8 M59
Descriptors: Champions of the breed, sales of animals.

**NORMANDE**

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**

NAL call number: SB111 A2P7
Descriptors: morphological data, production characteristics.

NAL call number: 22.5 H613
Descriptors: importation, selection, use.

NAL call number: 30.98 AG8
Descriptors: cattle, origin, use, selection, pedigree.

NAL call number: SF199.S56M3
Descriptors: origins, characteristics, use.

NAL call number: SF105.A74
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Descriptor: rare breed, type, use.

NAL call number: SF199.S56W48
Descriptors: origin, history, characteristics, distribution.

NAL call number: SF199.S56S7
Descriptors: origins, historical.

NAL call number: 43 AS3R
Descriptors: origin, cattle breeders, selection, production, use.

NAL call number: 43 AS3
Descriptors: development, selection, history, use.

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.

NAL call number: 2 M69B
Descriptors: development, selection, production, history.

NAL call number: RSF199.S56B4
Descriptors: origin, use, history, selection.

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**CHICKENS**

**WHITE LEGHORN**

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NAL call number: 47.8 AM33P
Descriptors: egg production, comparison study of strain differences, feathering rate, cages.

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

NAL call number: 47.8 AM33P
Descriptors: egg shell quality, genetic effects, single vs. 9 bird colony housing, ovulation rate, heritability, genetic correlation.

NAL call number: 47.8 Am33P
Descriptors: 344, 516 and 1031 cm2 per bird, shell quality, comparison study.

NAL call number: 442.8 Z8
Descriptors: laying hen performance.

NAL call number: 49.9 H19
Descriptors: laying performance, egg characteristics, feed consumption, body weight.

NAL call number: QR184.14
Descriptors: immunogenetics, disease resistance, B complex and non-B complex effects, histocompatibility.

NAL call number: 49.9 H19
Descriptors: White Leghorns, Rhode Island Reds, production traits, egg composition.

NAL call number: Z5055.U49D53
Descriptors: social rank index, floor pens, single housing, relationship of social status to egg production.
NAL call number: 47.8 AM33P
Descriptors: environmental and genetic factors.

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.

NAL call number: 47 R272L
Descriptors: origins, history, development, characteristics, breeding.

NAL call number: 47 V61L
Descriptors: all aspects of color variants, husbandry.

NAL call number: 47 AY7
Descriptors: search for birds in zoos, various color variations, costs and marketing, use as a table bird.

NAL call number: 47 Ay7L
Descriptors: color variations, egg production qualities.

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HORSES

APPALOOSA

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.

NAL call number: SF293.A7A6
Descriptors: Appaloosa Horse, yearbooks, horse-shows, pictorial works.

NAL call number: SF1 L5
Descriptors: pigment patterns, eumelanotic, phaeomelanotic, spotting, Appaloosa.

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.

NAL call number: 41.9 P67
Descriptors: coat color inheritance, Italian Appaloosa Association, historical and morphological review.

NAL call number: SF293.A7A77
Descriptors: sales, breed characteristics, shows, Appaloosa horse periodical.

NAL call number: 42.8 W522
Descriptors: characteristics, breed associations.

NAL call number: SF290.G3H4
Descriptors: Achal Tekkiner, Andalusier, Anglo-Araber, Anglo-Norman, Appaloosa, Budjomij, Freiberger, Friesen, Hunter, Kladruber, Knapstruper, Lipizzaner, Lusitano, Palomino, Peruanischer Paso, Pinto, Polo-Pferde, Quarter-Horse, West German horse breeds.

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

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

NAL call number: 80 C83
Descriptors: coat pattern, horse breed.

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, Brasilian, Chilean, Peruvian, Venezuelan Criollos.

NAL call number: SF277.K6
Descriptors: characteristics, use, type.

NAL call number: SF293.A7H28
Descriptors: origin, coat patterns, breeding.

NAL call number: SF293.A7R5
Descriptors: Appaloosa horse.

NAL call number: 42.H31
Descriptors: history, conformation, faults, coat patterns, registration applications, past show champions, clubs.

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 hesteavls 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 waldschonenendes Vorrucken mit Pferden.]" K. Keilen and F. Diehl, *Allgemeine Forstzeitschrift* (no.16-17):405-407 (1986).
Selected Readings on the History and Use of Old Livestock Breeds

NAL call number: 99.8 AL52
Descriptors: performance and costs of horse skidding, French, Bavarian, Danish, Wurttemberg, Belgian and Black Forest breeds.

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

NAL call number: 442.8 AM3
Descriptors: coat color.

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

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

"To preserve the present gene pool of livestock. [Sacuvati postojeci fond gena u zootehnickim rezervatima.]
NAL call number: 43.8 ST6

"On some disappearing horse breeds in Yugoslavia. [Pasmine konja koje su nestale ili nestaju iz nasih krajeva.]
NAL call number: 43.8 ST6

"The Belgian half-bred horse. [Le cheval de demi-sang belge.]
NAL call number: SF105 E4
Descriptors: crossbred Belgian, characteristics, use.

"Lethal dominant roan in horses."
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 krzyzówki-ogier pełnej krwi angielskiej X krajowa klacz pogrubiona-dla celow wierzchowych.]
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.
Selected Readings on the History and Use of Old Livestock Breeds

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.

NAL call number: 41.8 V84
Descriptors: colour, inheritance, Belgian, horse, silvering factor.

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.

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.

NAL call number: 42.9 C168 v.2
Descriptors: pictorial, application and membership information, membership listings, index of stallions and mares.

CLEVELAND BAY

NAL call number: SF293.C6D46
Descriptors: Cleveland Bay horse, history, England, Yorkshire.

NAL call number: SF105.A74
Descriptors: history, breed origin.

NAL call number: SF105.A74
Descriptors: rare livestock breeds, origin, progenitors, Great Britain.

NAL call number: SF105.A74
Descriptors: rare breed of horse, characteristics, Great Britain.
NAL call number: 42.F16  
Descriptors: Cleveland, Yorkshire, uses, draft, coach, riding, pack horse, hunting.

NAL call number: 42.9 C59  
Descriptors: history, list of society officers, pedigree listings, sire, dam, owner and breeders.

HACKNEY

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

NAL call number: SF293.H2R9 1979  
Descriptors: Hackney horse, breeding, history.

NAL call number: SF105.A74  
Descriptors: history, breed origin, Hackney.

NAL call number: 20 EE73T  
Descriptors: Klepper horse, Estonian Pony, Hackney, Tori, draft type, steeplechasing, breed history.

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.

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.

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.

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.


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

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.

NAL call number: SF84.E8
Descriptors: horses, history, France.

NAL call number: SF311 W4
Descriptors: large breeds, Shire, Clydesdale, Suffolk Punch and Percheron, history, breeding, management, work and show purposes.

NAL call number: SF293 P4V4
Descriptors: use, characteristics, selecting, reproduction.


NAL call number: SF291 Q8 1974
Descriptors: Breton, Percheron, French Saddle Horse, French Ardennes, French Trotter, English Thoroughbred.


NAL call number: 42 D58

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


NAL call number: SF107.H3 R

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


NAL call number: 42 C543

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


NAL call number: 42 D88

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

**SHIRE HORSE**


NAL call number: QP98.C87

Descriptors: phenotypes, gene frequency.


NAL call number: SF311 W4

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


NAL call number: SF293 S56C47

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


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
Selected Readings on the History and Use of Old Livestock Breeds

NAL call number: 42 G37G
Descriptors: history in Britain, 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.

NAL call number: 42 ST8H
Descriptors: history, breeding cart horses, origin of the English Cart Horse Society.

WELSH PONY

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.

NAL call number: 49 N17
Descriptors: mixed breed, Welsh Pony stallions, Arab mares, Czechoslovakian Saddle Pony, dimensions, speed.

NAL call number: QL750.A6
Descriptors: young horses, self care, animal behavior.

NAL call number: QL750.A6
Descriptors: play behavior, sex differences, types of play, use of inanimate objects.

NAL call number: 410 B77
Descriptors: distance between animals, animal behavior.

NAL call number: 49 N17
Descriptors: Welsh Pony stallion-Arab mare cross, suitable for children, dimensions.

NAL call number: 442.8 J8222
Descriptors: Welsh Pony, Welsh Cob, frozen storage of embryos, embryo transfer, pregnancy rate of recipient mares.
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NAL call number: SF315.2.W4D
Descriptors: best of breeds book for the U.K.

NAL call number: 42.9 W46
Descriptors: register of births by sex, sires, dams.

NAL call number: QP98 E88
Descriptors: Thoroughbred, Trotter, halfbred, Welsh pony, New Forest pony, Shetland, Fjord, Hackney, a comparison study of various blood constituents.

NAL call number: 42.9 W461
Descriptors: register of birth by sex, sires and dams.

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**PIGS**

**GLOUCESTERSHIRE OLD SPOT**

NAL call number: QH75 A1C5
Descriptors: registration details, inbreeding rates.

NAL call number: SF105.A74
Descriptors: current status of blood lines, Gloucester Old Spots, Middle White, Tamworth, Large Black, Berkshire.

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
NAL call number: 49AN55
Descriptors: Gloucestershire Old Spot, Large White, comparison study-age, weight, feed intake.

NAL call number: SF105.A74
Descriptors: native British pig, origin, description, litter size, boar performance tests.

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 COAT**

NAL call number: SF396 G7W5
Descriptors: history, breeds, pigs, United Kingdom, books, rare.

NAL call number: SF105.A74
Descriptors: swine, breed history.

**WESSEX SADDLEBACK**

NAL call number: 46.9 W51
Descriptors: show, members, boars, sows, society, breeding stock, register.
SHEEP

CHEVIOT

NAL call number: QR360 A1J6
Descriptors: sheep, breeds, genetics, biotechnology, scrapie, susceptibility, UK, restriction fragment length polymorphism, scrapie agent, prions, cheviot.

NAL call number: 41.8 V641
Descriptors: sheep, Cheviot, scrapie agent, scrapie, linkage, genes, glycoproteins, disease resistance, nucleic acid probes.

NAL call number: 41.8 V641
Descriptors: sheep, Suffolk, Cheviot, scrapie, genetic control.

NAL call number: 49 AN55
Descriptors: ewes, Cheviot, crossbreds, reproductive performance, litter size, grazing.

NAL call number: 49.9 N483
Descriptors: sheep, New Zealand.

NAL call number: 41.8 C163
Descriptors: Cheviot, genetics.

NAL call number: 10 J822
Descriptors: wool, fiber, season.

NAL call number: 45. AM3
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Descriptors: history, description, scale of points, rules, breeders, stock, hardiness, fleece.

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.

NAL call number: 45.9 AM3
Descriptors: members, rules, judging, show, entries, breeding.

COTSWOLD

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.

NAL call number: 45.9 C82F
Descriptors: register, origin, history, present position, sheep.

LEICESTER

NAL call number: 442.8 AM3
Descriptors: sheep, Border Leicester, romney, animal breeding, inheritance, progeny, genes, mutations, fleece, wool production, liveweight, dominant genes.

NAL call number: 23 AU792
Descriptors: ewes, Australian Merino, Border Leicester, crosses, maternal behavior, paddocks, selection.

NAL call number: QL750.A6
Descriptors: ewes, Australian Merino, Border Leicester, crossbreds, social structure, territory, docility.

NAL call number: 10 J822
Descriptors: dams (mothers), ewes, sheep breeds, crosses, birth weight, body weight, slaughter weight, survival,

NAL call number: SF375 N43

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


NAL call number: SF105.A74

Descriptors: sheep breeds, Leicester.


NAL call number: aS21.R44A7

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


NAL call number: aS21.R44A7

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


NAL call number: AS21.R44A7

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


NAL call number: 256.13 AG82M

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


NAL call number: 256.13 AG82M

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


NAL call number: 49.9 N483

Descriptors: Romney, Border Leicester, Merino, breeds.


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


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

NAL call number: 23 AU792
Descriptors: performance, wool quality, reproduction, Australia.

NAL call number: 100 OR3C
Descriptors: Sheep, breed performance.

NAL call number: 304.8 W888
Descriptors: Border Leicester 'Improved', Coopworth, Cormo, Dormer, Drysdale, Perendale, Tukidale, White Suffolk, Gromark, Wiltshire Horn, breeding, characteristics, uses.

NAL call number: SF105.A74
Descriptors: old rare sheep breed of England, characteristics, history.

NAL call number: 10 J822
Descriptors: crossbreeding, fleece, characteristics.

NAL call number: 45.9 AM32
Descriptors: pure breed, breeders, breeding stock, register.

NAL call number: 45.L53
Descriptors: history, pedigree, description, purposes, value, meat, wool.

NAL call number: 45.9 L53
Descriptors: description, register, breeders, members, rules, association, regulations.

NAL call number: 45.9 L53
Descriptors: description, register, breeders, members, rules, association, regulations.