

Contents

VOLUME 1

Preface	xi
Introduction	xiii
Breeding, Genetics and Conservation (Lawrence Alderson)	xv
Asses (Valerie Porter)	1
Introduction	1
Wild ass	1
Domestication and spread	1
Breeding	2
Uses	2
Breeds	3
Populations	3
Breed descriptions	6
Ass Breeds	7
References and Further Reading	51
Camelids (Valerie Porter)	54
Introduction	54
Ancestry and taxonomy	54
Physiology	54
Camels	54
Camel productivity	55
Wild camels	55
Bactrian camel	56
Dromedary or Arabian camel	56
Bactrian breeds and types	57
Dromedary breeds and types	59
Lamoids	75
Vicuña	76
Guanaco	77
The domesticants	77
Productivity	78
Lamoid types	79
References and Further Reading	80
Cattle (Stephen Hall and Lawrence Alderson)	83
Introduction	83
World overview, population and distribution	83
Uses of cattle	83
Cattle as a biological species	84
New insights from modern genetics	85
Emergence of taurine and zebu cattle	86
Evolution of cattle under domestication	86
The spread of domesticated cattle	87
Europe	87
Africa	88

Asia and Oceania	88
Americas	89
Breed differentiation and development	89
Definition of a 'breed'	89
Breed development	90
Humps, horns, heights and hair	90
The hump of the zebu	90
Horns	90
Withers heights	91
Coat colour	91
Breed groupings	92
Synonyms	92
Performance data and dimensions	92
Glossary of terms	92
Cattle Breeds	96
References and Further Reading	333
Goats (Valerie Porter)	343
Introduction	343
Morphology and uses	343
Ears	343
Horns	344
Coat	344
Milk and meat	345
Wild goats	346
Horns in wild species	346
The wild species	347
Bezoar	347
Markhor	348
Ibex	348
Nubian ibex	349
Siberian ibex	349
Iberian wild goat	349
Walia ibex	350
Tur	350
Domestication and spread	350
Wild ancestor	350
Place and time of first domestication	351
Spread	351
Spread of different types	352
Goat Breeds	352
References and Further Reading	417
Horses (D. Phillip Sponenberg)	421
Introduction	421
Global numbers and distribution	421
Basic biology	421
Morphology	421
Colour's role in horse breeds	422
Gaits	423
Major uses	423
Wild ancestors and wild relatives	425
Domestication and spread	425
Place and time of first domestication	425
Spread	425
Blood classification system	426
Breed groups	426
Ponies	427
Light horses	428

Warmblood	430
Draught	431
Colour breeds	431
Feral and wild	431
Horse Breeds	431
References and Further Reading	516
Pigs (Valerie Porter)	517
Introduction	517
Populations	517
Uses	517
Meat	517
Milk	517
Leather and bristles	518
Manure	518
Laboratory pigs	518
Physiology of domestic pigs	518
Ears and tail	518
Coat colour	518
Conformation	519
Size	520
Digestive system	520
Reproduction	520
Wild species	521
Suborder Suina	521
Family Suidae	521
Genus Sus	521
Domestication and spread	523
Pig genomics	525
Breed entries	526
Glossary	526
Pig Breeds	526
References and Further Reading	717
Index	11
 VOLUME 2	
Preface	xi
Introduction	xiii
Breeding, Genetics and Conservation (Lawrence Alderson)	xv
Sheep (Lawrence Alderson)	723
Introduction	723
Wild species	723
Domestication	723
Breeding and genetics	725
Horns	725
Tail types	725
Disease resistance	727
Prolificacy	728
Fibre	728
Kemp	728
Double-coated sheep	729
Hair sheep	729
Fleece types	729
Wool quality	729

Wool products	730
Finewool sheep	730
Dairy sheep	730
Stratification	732
Combined Flock Book	733
Sheep Breeds	733
References and Further Reading	954
Water Buffalo (Valerie Porter)	957
Introduction	957
Taxonomy	957
Wild buffalo	957
Domestication and spread	957
River and Swamp types	958
Productivity	959
Local names	959
Water Buffalo Breeds	960
References and Further Reading	979
Yak (Valerie Porter)	983
Introduction	983
Taxonomy	983
Wild yak	983
Reproduction	984
Environmental adaptations	984
Domestic yak	985
Interbreeding	985
Yak Breeds	986
References and Further Reading	993
Other Livestock (Valerie Porter)	997
Introduction	997
Elephants	997
Morphology	998
Range, habitat and populations	999
African elephant	999
Asian elephant	999
Reproduction	1000
Humans and elephants	1000
Taming and training	1000
Captive breeding	1001
Musth	1001
War elephants	1001
Working elephants	1002
Working Indian elephants	1002
Working elephants in other countries	1003
Cervidae	1003
Reindeer	1004
Reindeer and humans	1005
Reindeer 'breeds'	1007
Future of reindeer	1008
Moose, elk and wapiti	1008
Moose breeding	1009
Elk farming	1009
Red, fallow and sika deer	1009
British deer farming	1009
Deer farming in New Zealand	1010
Russian deer farming	1010

Chinese deer farming	1011
Deer farming in other countries	1011
Other deer	1011
Moschidae	1012
Bovidae: Antelope	1013
Eland	1014
Eland in Ukraine	1014
Eland in the UK	1014
Eland in Texas	1014
Eland farming in Africa	1015
Oryx	1015
Blackbuck, nilgai and saiga	1015
Bovidae: Buffalo and Bison	1016
African buffalo	1016
European bison (wisent)	1016
American bison	1017
Bovidae: Musk Ox	1017
Other Domesticants	1019
Rabbits	1019
Rodents	1020
Grasscutter	1020
Guinea pig	1020
Fur-bearing Species	1021
References and Further Reading	1021