A WORLD DICTIONARY OF BREEDS TYPES AND VARIETIES OF LIVESTOCK

WITH SUPPLEMENT

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BY

I. L. MASON
Institute of Animal Genetics, Edinburgh
(Member of Scientific Staff, Agricultural Research Council)

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Animal Breeding and Genetics,
Edinburgh





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I. L. MASON

ZOOLOGICAL GARDEN
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CALCUTTA

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INTRODUCTION

In order to understand the aim of this dictionary, to explain its form, and to excuse its omissions, it is necessary to consider how the idea of compiling it arose and what has been its development.

Quite early in the history of *Animal Breeding Abstracts* (*A.B.A.*) it became clear that consistency in terminology was desirable if the abstracts were to have their full value. The names of breeds of livestock formed one of the most important categories in which uniformity was essential. In preparing abstracts from many languages the problem arose of how to render foreign breed names into English. At the same time even English names were liable to have several different spellings or alternative forms. A standard list was necessary to show the English forms and spellings recommended for use in *A.B.A.* Such a check list was prepared by my predecessors in the Commonwealth Bureau of Animal Breeding and Genetics (notably by Dr. J. H. Kenneth and Professor J. E. Nichols) and formed the basis of the present dictionary.

The next development was an attempt to avoid the confusion which can arise by the same breed having entirely different names in different parts of the world. The most notable examples of this are Shorthorn ≡ Durham and Large White ≡ Yorkshire. In order to decide which names were synonymous it was necessary to consider the characteristics and distribution of the breeds listed. The check list was turning into a glossary.

It was at this point that I took over the work of compilation. The scope was extended, the information about each breed expanded and preparation for publication commenced. To save space, and because comparable information about all breeds is hard to obtain, the description has been restricted to "breed characters" such as colour and horns — those traits, in fact, which are least affected by the environment. No attempt has been made to compile an encyclopaedia containing a complete account of each breed. The work has remained at the stage of a dictionary.

The dictionary's origin as a guide to abstractors explains why the references to individual breeds in Part I are not directly to the original papers where the breed is described but to the place in *A.B.A.* where this paper is abstracted. This device also saves space.

In brief, then, the aim of Part I of this dictionary is to list the livestock names which may be encountered in the literature (*i.e.* names which have been applied to groups of horses, cattle, sheep, pigs, goats, buffaloes and asses on the basis of common origin, similarity, or geographical proximity), to indicate which names are synonymous, and to recommend one form for English use. For these "breeds", "types", or "varieties", whichever they may be, a brief indication is given of their place of origin or present distribution, their economic use, their relationships to other "breeds", a description of their breed characters, and the origin of the name.

The final stage in the evolution of this publication was the addition of a section (Part II) giving information under countries instead of alphabetically under breeds. The countries are grouped in continents. For states in Europe (except U.S.S.R.) and the New World the principal breeds are listed and their relative numbers tabulated. If no figures for breed composition are available the relative importance of breeds may be indicated by numbers of pedigree registrations or numbers of sires licensed. These figures should be interpreted with caution. In both cases it must be borne in mind that the male:female ratio may vary from breed to breed and also that a proportion of purebred animals are used for crossing. Where sire licensing is in force the regulations usually demand that *all* sires be licensed before use; on the other hand pedigree registration only affects a small proportion of the breeding stock.

Livestock statistics are given for the year for which the breed composition is given and also for the latest year for which they are available in the F.A.O. Yearbook of Food and Agricultural Statistics, 1949. Asia and Africa are divided into subcontinents instead of countries (*e.g.* Middle East, U.S.S.R., India, North Africa, West Africa). Within these areas the classification of the native livestock is attempted. References are listed which give accounts of the breeds in any particular country.

Photographs and Maps

This book is not really complete without illustrations of the breeds described and maps of their distribution. With this in mind the Bureau is making a collection of photographs and *may* be able to issue a supplementary volume of plates at some future date. In order to make this as complete as possible readers are invited to co-operate by sending in photographs (with some indication of scale) to the Bureau. Photographs of out-of-the-way or disappearing breeds would be especially welcome. In the meantime the reader is referred to the book on cattle breeds by Schmid (1942) which figures all the major breeds, and to the series of illustrations of sheep breeds published in the *Californian Wool Grower* (1940—42).

Maps are even more difficult to come by than photographs. Some years ago the International Institute of Agriculture in Rome started a series of publications entitled "*Atlas Internationale Zootechnique*" which consisted of descriptions of the cattle breeds of a country together with maps of their distribution. Unfortunately the only countries covered were Germany, Hungary, the Netherlands and Switzerland. More recently such maps have been published by the Ministry of Agriculture in Italy (De Simone, 1935), and France (Quittet, 1946). Wherever such maps are available an indication is given in the references in Part II.

ABBREVIATIONS

A.B.A. = *Animal Breeding Abstracts*
adj. = adjective
A.-E. = Anglo-Egyptian
approx. = approximate, approximately
b. = bacon
Bulg. = Bulgarian (transliterated)
C. = central
c. = century
c. = *circa*
cf. = compare
Chin. = Chinese (transliterated)
cw. = coarse-wooled (*i.e.* mattress, mixed, or carpet)
d. = dairy (milk)
Dan. = Danish
Du. = Dutch
E. = east
e.g. = for example.
esp. = especially
et al. = and others
etc. = et cetera
etym. = etymology
Finn. = Finnish
Fl. = Flemish
fl. = fleece (mohair or down)
Fr. = French
fr. = fat-rumped
ft. = fat-tailed (broad or S-shaped)
fw. = fine-wooled (*i.e.* Merino type)
Ger. = German
Hung. = Hungarian (Magyar)
h. = heavy draft
hd = horned
hy = hairy, woolless
i.e. = that is
inc. = includes, included, including, inclusive
Is. = islands
It. = Italian
Jap. = Japanese (transliterated)
L. = lake
l. = light saddle, pack, or harness (horse)
l. tr. = light transport, *i.e.* coach or carriage (horse)
lat. = latitude
ld = lard
lft. = long fat tail
lt. = long thin tail
lw. = long-wooled (medium fine)
m. = meat
mw. = medium wool (*i.e.* intermediate between lw. and fw.)
N. = north
Nor. = Norwegian
obs. = obsolete
occ. = occasionally
orig. = origin, originated
p. = pork
pd = polled, hornless
Pers. = Persian
pl. = plural
Pol. = Polish
Port. = Portuguese
prim. = primitive (*i.e.* native unimproved type)
py = pony
q.v. = which see
R. = river
Rom. = Romanian
Russ. = Russian (transliterated according to Serbo-Croat or "international" system)
S. = south
sft. = short fat tail
sim. to = similar to
Sp. = Spanish
s.s. = *sensu stricto*
st. = short-tailed
sw. = short-wooled (medium fine)
Swed. = Swedish
syn. = synonym(s)
tr. = transport (draft)
Turk. = Turkish
usu. = usually
var. = variety or sub-breed
viz. = namely
W. = west
w. = wooled (but not cw. or fw.)
z. = zebu

TRANSLITERATION OF RUSSIAN

I. The "International" or "Serbo-Croat" system used for the strict transliteration of Cyrillic in authors and titles of Russian references.

II. System of "anglicisation" used for geographical and breed names, as used by the National Geographic Society of America.

Russian	I Transliteration	II Anglicisation
А	a	a
Б	b	b
В	v	v
Г	g	g
Д	d	d
Е	e	ye (initially, after vowels, after Ъ, Ь) e (elsewhere)
Ж	ž	zh
З	z	z
И	i	i
Й	i	i (omit after И or Ы)
К	k	k
Л	l	l
М	m	m
Н	n	n
О	o	o
П	p	p
Р	r	r
С	s	s
Т	t	t
У	u	u
Ф	f	f
Х	h	kh
Ц	c	ts
Ч	č	ch
Ш	š	sh
Щ	šč	shch
Ъ	′	omit
Ы	y	y
Ь	j	omit
Э	ė	e
Ю	ju	yu
Я	ja	ya

PART I

ALPHABETICAL



EXPLANATORY NOTES

Spelling of Names

MANY breeds are named after geographical features. For these I use the spellings recommended by the Permanent Committee on Geographical Names for British Official Use. An exception has been made in the case of Russian names for which I employ the simpler system of "anglicisation" used by the National Geographic Society of America. (This is based on the transliteration system recommended by the Board on Geographical Names of the United States Department of the Interior, *see* p. 12.)

Adjectival forms are avoided unless they are conventional English forms (*e.g.* "Berry" not "*Berrichon*", but "Percheron" not "*La Perche*") but the Arabic adjectival forms ending in -i (*e.g.* Nejdi) have been retained. Where adjectival forms are unavoidable they are put in the masculine singular (*e.g.* Charollais). Occasionally the plural form is conventional (*e.g.* Fulani).

Where possible foreign descriptive names have been translated (*e.g.* "*Schwarzbuntes Niederungsvieh*" becomes "Black Pied Lowland") but sometimes translation is impossible (*e.g.* Edelschwein, Préalpes du Sud, etc.).

Type used for Names

1. Heavy type (*e.g.* **Shorthorn**) is used for the three following categories:
   a. Names of breeds, so defined by the existence of a breed society or herdbook.
   b. Names of breeds recognized as such by the government or other official body in a particular country.
   c. Names referring to other uniform true-breeding populations.

Hence the names in heavy type may be called "recognized breeds", but the term is relative and may mean slightly different things in different countries. Thus a variety may be in heavy type if it has a separate breed society (*e.g.* **Black Welsh Mountain**) or if it is bred under a different name in a different country from the main breed (*e.g.* **Friesian** and **British Friesian**).

2. Ordinary (roman) type is used for:
   a. Minor, new, or disappearing breeds which lack breed societies (*e.g.* Penistone).
   b. Extinct breeds; these are placed in square brackets, *e.g.* [Galloway Pony]. No attempt has been made to include all extinct breeds. Those listed are here because of their presence in *A.B.A.* or because they are important in the origin of other breeds.
   c. Varieties — whether geographical or genetic — which do not have separate breed societies (*e.g.* Blue-faced Leicester).
   d. Non-uniform populations or geographical terms meaning "cattle of such and such a place" or even "breeds of such and such a place".
   e. Names used for crossbreds (*e.g.* Greyface) or other types which are not true-breeding.

f. Wild species. These are included if they are commonly referred to as "wild cattle", "wild sheep", etc. They may be recognised by the absence of an initial capital letter and by being followed immediately by their scientific name (*e.g.* mouflon = *Ovis musimon*).

3. Small capitals (*e.g.* BRITISH LONGWOOL) are used for breed groups or "types".

In some cases the distinction between a breed group divided into breeds and a breed divided into varieties, is purely arbitrary. For instance, the Beef Shorthorn and the Dairy Shorthorn might well be called separate breeds but since they are still registered in the same herdbook it is convenient to describe them as varieties of the Shorthorn breed.

4. Italics (*e.g. Durham*) are employed for names not recommended for use in English. These may be synonyms, alternative forms or spellings, obsolete names, misspellings, or foreign forms.

Place of Breeding

The geographical name in round brackets refers primarily to the place of origin of the breed, *e.g.* **Shorthorn** (N.E. England). In the case of improved breeds, which may now have a world-wide distribution, this is clear enough. In the case of native breeds, however, it has in many cases been possible to give only the present distribution, whilst assuming that the place of origin was in the same area. In either case only the country, province or county may be given; the more exact place of origin is shown by the name of the breed itself or by its synonyms or origins, *e.g.* "**Shorthorn** (N.E. England) . . . orig. from Holderness + Teeswater; syn. *Durham*".

In the case of synonyms the name in round brackets refers to the place in which this particular synonym is used. Likewise for varieties it refers to the place where this variety is bred.

When a breed is found on the borders of two countries the place-names are separated by a hyphen *e.g.* "**Cheviot** (England-Scotland)" means that the Cheviot breed originated on the borders of England and Scotland.

Since this dictionary has been in preparation for several years it has not been possible to keep up-to-date with all the country and boundary changes. In particular it must be emphasized that the section on India was prepared before the partition; the term "India" is used to refer to the whole sub-continent and thus includes Pakistan, the Indian Union, and the independent states. Areas such as East Prussia and Silesia which have changed hands since the dictionary was started are not assigned to any particular country.

Uses of Breeds

The letters immediately after the round brackets enclosing the country name indicate the functions of the breed ("aptitudes") or the products obtained from it. For example "d." means only that the breed is used for milk. It does not necessarily indicate a breed of dairy type but is used equally to describe a low-yielding unimproved native breed.

Horses are classified as heavy draft (h.), light draft (l. tr.), light (l.) or

pony (py). In addition to recognized ponies, "py" is also used to describe any small horse, *i.e.* one which is, on the average, less than 14 hands or 140 cm. high at the withers. Pigs are classified as lard (ld), pork (p.) or bacon (b.). Cattle, buffaloes, sheep, and goats are described as producers of work (tr.), milk (d.), meat (m.), wool (w.), mohair or down (fl.). In the case of dual- or triple-purpose breeds the products are listed in order of importance.

Wool sheep are divided into Merino type (fw.), carpet wool type (cw.) and intermediates. Where possible the latter have been subdivided into longwools (lw.), shortwools (sw.) and the crossbred (Merino × longwool) type (mw.). When information is insufficient to permit sub-classification in this way the description is simply "w.".

Relationship to Other Breeds

This includes origin (if known) and derivatives or varieties. If two dates are given for the origin of a breed the first is the year when selection or crossbreeding began and the second the year when the new type was fixed or the name recognized officially. When only a single date is given it usually refers to the latter event.

When a new breed has been developed by crossing two others the founder breed names are joined in the usual way by the multiplication sign and if possible the male parental breed is put first, *e.g.* "**Oxford Down** . . . orig. about 1830 from Cotswold × Hampshire Down". The formation of a new breed by treating two existing breeds or varieties as one is indicated by the addition sign, *e.g.* "**Swedish Red-and-White** . . . orig. from Swedish Ayrshire + Red Pied Swedish". Contrary to the usual mathematical convention the "and" should be taken before the "×" in such a case as "orig. from Swiss Brown and Simmental × Ukrainian Grey".

The breed groups or "types" unite breeds which have a common origin or are more similar to each other than to the other breeds of a particular country. The largest group is that of the humped cattle or zebu (z.). When there are only two breeds in such a breed group they are connected by the phrase "sim. to" (similar to). This is used in a purely relative sense and means only that the two breeds are more similar to each other than to neighbouring breeds.

When two breeds appear to have something in common (in name, characteristics, or distribution) but I have not been able to find out the true relationship the breed names are cross-referenced by "*cf.*" (compare). For example, I do not know whether the Pyrenean breed in Spain is the same as the Blond Pyrenean in France or whether they merely have the same name so I write "Pyrenean (Spain) . . . *cf.* Blond Pyrenean (France)" and *vice versa*.

Breed Characters

As stated above, descriptions are confined to clear-cut morphological characters. No attempt has been made to give a measure of size. This would undoubtedly be very desirable, but size is so much influenced by age, sex, feeding, and management that many figures would have to be given before

it would be possible to compare different breeds. Dwarf breeds (and ponies) are noted, however. Descriptions implicit in the breed name (*e.g.* Red Poll) are not repeated. Descriptions of varieties of a breed or breeds of a breed group are confined to differences from the parent type.

If no *colour* is given it means, in the case of sheep and pigs, that the breed colour is white, in the case of buffaloes that it is black, or at least dark, and in the case of other species that there is no characteristic breed colour. The colour given is the typical colour but there are few breeds in which off-types do not occur. The description refers to the adult female; the young may be different from the adult and bulls are often darker than cows. Patterns are not always described in detail. For instance, I have not specified that grey or grey-white cattle are darker on the shoulders than on the rest of the body.

Cattle and goat breeds are *horned* (hd) unless they are described specifically as polled (pd). Differences in horn size between the sexes are not mentioned but it can be assumed that the cow and the castrate male have larger horns than the bull. The reverse holds in goats and sheep. Owing to the wide variation among sheep the presence or absence of horns in each sex is noted wherever the information is available.

The *coat* is described only if it is exceptional in some way, *e.g.* absent, very long, curly, or hair instead of wool (sheep only). Likewise only abnormal ears are mentioned.

Sheep *tails* are classified as long (lt.) *i.e.* down to the ground, short (st.) *i.e.* less than half way to the hocks, or fat (ft). If the tail is not mentioned it may be assumed that it is of the thin, medium-length type so common among European breeds. No distinction is made between the docked and undocked breeds having this type of tail.

Synonyms

The synonyms are usually preceded by the official name of the breed in the language of its country of origin. This applies in the case of the common European languages and when the recommended English name is different from the official vernacular name. It normally appears in the feminine in order to agree with the foreign word for breed (Fr. *la race*, Ger. *die Rasse*, It. *la razza*, etc.). Horse breed names, however, usually appear in the masculine.

In the interest of simplicity all Cyrillic names (Russian, Bulgarian, or Yugoslavian) are transliterated according to the International or Serbo-Croat system as used in *A.B.A.* (*see* p. 12). To avoid the clumsy *-skaja* of the feminine, adjectival forms are given in the masculine singular.

Proscribed Names

The names following the "not" at the end of an entry are in quite a different category from the synonyms. They are not alternative names used in different times or places, but wrong forms — misspellings or definite misnomers which really refer to quite different breeds. For instance, the German Red cattle should not be called "Red German", since that name was used (until World War II) for the Russian breed of German origin which is now called Ukrainian Red.

Etymology

In the majority of cases breeds are named from the geographical region in which they originated, from the tribe which breed them, by some descriptive feature (*e.g.* Shorthorn, Red Poll), or by a combination of two of these categories (*e.g.* Exmoor Horn, Red Bororo). It is assumed that such derivations are self-explanatory and no etymology is given. At the same time it must be borne in mind that the descriptions implied in a name may be inaccurate, *e.g.* the Blackhead Persian did not come from Persia nor the Holstein-Friesian from Holstein while the Belgian "Blue" cattle are now largely white.

In all other cases the origin of the name is given, if it is known. The explanation may appear in the description of the origin of the breed or among the synonyms; otherwise it is given in square brackets at the end of the entry, *e.g.* "Criollo . . . [= native]".

References

The figures following the entry refer to the volumes and pages of *A.B.A.* where books or articles giving information about the breed in question are abstracted. The publications referred to do not necessarily contain complete descriptions; they may be experimental studies, news of exports or imports, of breed societies or herdbooks, or even discussions of nomenclature. Nor do these references exhaust the sources of information used in compiling the dictionary. If more information is desired the full references in Part II should be consulted. Those giving accounts of breeds over the whole world are arranged under animals and those describing the breeds of a particular country are arranged under countries.

In some cases the same paper may be quoted both in the *A.B.A.* reference and in the country reference. To make such overlaps clear the *A.B.A.* reference is given (where there is one) after the bibliographical details of the papers listed in Part II.

Abyssinian (Ethiopia) — *5*:2, *7*:209, *8*:336-7, *15*:231

African wild ass: see Nubian wild ass

Albanian — *8*:328, *9*:95

Algerian

American (U.S.A.); orig. from Andalusian, Catalan, Majorcan, Maltese, and Poitou; syn. *Mammoth* — *10*:213, *11*:211

Anatolian (Turkey); black and grey vars. — *8*:7-8

Andalusian (Spain); grey; syn. *Córdoba*; Sp. *Andaluz* — *4*:6, *10*:83, *13*:122-3

Apulian: see Martina Franca; It. *Pugliese*

Armenian: see Caucasian — *9*:295, *15*:143

Ausetan: see Catalan

Azerbaijan: see Caucasian — *15*:143

Baladi (Lower Egypt): var. of Egyptian — *12*:113-4

Benderi (S. Persia); orig. from onager × Persian

Berga: var. of Catalan

Bokhara: see Bukhara

Brazilian (São Paulo); syn. *Paulista*; see also Pêga — *11*:209, *17*:326, *18*:145

Bukhara: see Uzbek; not *Bokhara*

Canary Island; sim. to Andalusian — *10*:83

Canindé (Ceará, Brazil): var. of Northeastern; black with pale belly — *15*:221, *17*:326

Cardão (Ceará, Brazil): var. of Northeastern; yellow or bay — *15*:221, *17*:326

Cassala: see Kassala

Castilian (Spain); unimproved native type; Sp. *Castellano* — *10*:83

Catalan (Spain); dark grey or brown with white underparts; syn. *Ausetan, Catalonian*; vars. Berga, Vich — *4*:6, *10*:83, *11*:211, *19*:32

Caucasian (U.S.S.R.); small native type; inc. Armenian and Azerbaijan — *15*:143

Central Asiatic (U.S.S.R.); small native types; inc. Kara-Kalpak, Tajik, Turkmen, Uzbek

chigetai (Turkestan) = *Equus hemionus* Pall.; syn. *kulan* (Kirgiz); Ger. *dzeggetai, dziggetai*; not *chiggetai, djigitai* — *5*:120, *19*:156

Chinese; vars: large (Shantung), intermediate, and small — *15*:231

Córdoba: see Andulasian

Cyprus; not *Cypriot* — *17*:114

Damascus: larger var. of Syrian — *15*:231-2

djigitai: see chigetai

dzeggetai, dziggetai: see chigetai

Egyptian; vars: Baladi (Lower Egypt), Saidi (Upper Egypt), Hassawi (saddle) *11*:211, *12*:113-4, *15*:231

French: see Poitou

Gascony: see Pyrenean
ghor-khar: see onager

Hamadan (Persia; also U.S.S.R.); sim. to Mary; usu. white; var: Kashan; not *Hamodan, Khamodan* *11*:12
Hassawi: white, saddle var. of Egyptian

Indian wild ass: see onager
Iranian: see Persian
Italian: see Martina Franca, Pantelleria, Romagna, Sardinian, Sicilian

Kara-Kalpak (Uzbekistan): see Central Asiatic *10*:144
Kashan: var. of Hamadan; not *Koshan*
Kassala (N. A.-E. Sudan); grey, riding var. of Sudanese; not *Cassala* *5*:2, *7*:209, *15*:231
Khamodan: see Hamadan
kiang (Tibet) = *Equus kiang* Moorcroft *6*:280, *7*:243
kulan: see chigetai, onager; not *koulan*

Leon-Zamora (Spain); black; long hair; Sp. *Leonés-Zamorano* or *Zamorano-Leonés* *4*:6, *13*:122-3

Majorcan (Balearic Islands, Spain); Sp. *Mallorquin*; not *Mallorcan* *4*:6, *10*:83
Mallorcan, Mallorquin: see Majorcan
Mammoth: see American
Martina Franca (Apulia, Italy); nearly black with light underparts; syn. *Apulian, Martinese* *3*:127, *8*:333, *13*:126
Mary (Turkmenistan); usu. white; sim. to Hamadan; syn. *Merv*
Masai (C., E., and S. Africa) *15*:231
Merv: see Mary
Moroccan
Muscat (Arabia and East Africa); orig. from Egyptian *5*:489, *15*:231

Northeastern (N.E. Brazil); vars: Canindé, Cardão *17*:326
Nubian wild ass (Ethiopia) = *Equus asinus africanus*; syn. *African wild ass*; orig. of domestic ass

onager (Persia to Mongolia) = *Equus onager* Pall.; syn. *ghor-khar* (India), *kulan* (Kirgiz), *Persian wild ass*; vars: Indian (*E. o. indicus*), [Syrian] (*E. o. hemippus*) *14*:137

Pantelleria (Italy); syn. *Pantesca*; not *Pantellaria* — *3*:127, *11*:211
Paulista: see Brazilian

Pêga (Minas Gerais, Brazil): ? It. and Egyptian orig. in 19th c., 1810 on; syn. *Lagoa Dourada*. [*pêga* = manacles, the brand of the original breeder J. de Resende of Lagoa Dourada] — *16*:99, *17*:326, *18*:145
Persian; small native type; syn. *Iranian*; see also Benderi, Hamadan — *15*:143
Persian wild ass: see onager
Poitou (W. France); syn. *French* — *8*:102, *10*:83, *11*:211
Pugliese: see *Apulian*
Pyrenean (France); syn. *Gascony*

Ragusan: see Sicilian
Romagna (Emilia, Italy); It. *Romagnola* — *13*:126

Saidi (Upper Egypt): var. of Egyptian
Sardinian (Italy); It. *Sarda*
Shantung: large var. of Chinese — *6*:276, *15*:232
Sicilian (Italy); orig. from Martina Franca and Catalan × native and Pantelleria; syn. *Ragusan* — *8*:334-5, 337-8, *13*:126
Somali (Somaliland) — *3*:127, *5*:2, *7*:209
Somali wild ass = *Equus asinus somaliensis*
Spanish: see Andalusian, Catalan, Leon-Zamora, Majorcan, also Castilian
Sudanese (A.-E. Sudan); grey; riding var: Kassala — *15*:231
Syrian (Syria and Palestine); larger var: Damascus — *15*:231-2
[Syrian wild ass] = *Equus onager hemippus*; var. of onager

Tajik: see Central Asiatic — *15*:143
Tunisian
Turkmen: see Central Asiatic: see also Mary

Uzbek: see Central Asiatic; syn. *Bukhara* — *15*:143

Vich: var. of Catalan

wild: see chigetai, kiang, Nubian wild, onager, Somali wild

Zamora, Zamora-Leonés: see Leon-Zamora

BUFFALO

African buffalo = *Bubalus caffer*; vars: Cape (black), Congo (red), *et al.* — *11*:216
Albanian; tr.d. — *8*:3, *9*:95
American bison = *Bison bison* (L.); not *buffalo* — *3*:131, *10*:256, *14*:9,71
Anatolian (Turkey); d. tr. — *8*:7-8
anoa (Celebes) = *Bubalus* (*Anoa*) *depressicornis* Smith; syn. *dwarf, pigmy,* or *chamois buffalo*
arni (India) = *Bubalus bubalis* (L.); syn. *Indian wild buffalo*; var: *B.b. hosei* (Borneo); orig. of domestic buffalo; not *arno*
Assam: see Bangar
Azerbaijan: see Transcaucasian

Badavan (United Provinces, India): var. of Murrah — *10*:16
Baladi: see Beheri
Bangar (Assam, India) — *7*:88
Banni (Cutch, India): var. of Mehsana
Beheri (Lower Egypt); d.; var. of Egyptian; syn. *Baladi*. [*beheri* = towards the sea] — *6*:269
Berari: see Nagpuri
Bhavanagri: see Jafrabadi
bison: see American, European; and Indian (under Cattle)
Bombay: see Surti
Brazilian: see Marajó
Bulgarian; tr. — *6*:1, *10*:148
Burmese; tr.

Cambodian: var. of Indo-Chinese; Fr. *Cambodgien* — *7*:207, *8*:9
Cape buffalo: black var. of African buffalo
carabao (Philippines) = buffalo; ♀ = *caraballa* — *7*:302
Ceylon; tr.; sim. to South Indian type; vars: Manaar, Tamamkaduwa
chamois buffalo: see anoa
Charotar: see Surti
Chinese (S.E. China); tr.
Congo buffalo: red var. of African buffalo

Dagestan: see Transcaucasian
Deccani: see Surti
Delhi: see Murrah
desi (India) = native, indigenous, and hence nondescript, breedless, unimproved; not *deshi*
dwarf buffalo: see anoa

Egyptian; vars: Beheri (Lower Egypt), Saidi (Upper Egypt) *6*:269
Ellichpuri: see Nagpuri
European: see Albanian, Bulgarian, Greek, Italian, Macedonian, Romanian, Transylvanian
European bison = *Bison bonasus* (L.); Ger. *wisent*, Russ. *zubr*; Polish and Caucasian vars.; not *aurochs* *5*:180, *9*:106-7

Ganjam: see Parlakimedi
Gaulani, Gauli: see Nagpuri
Gowdoo: see Kimedi
Greek; tr. *8*:95
Guja (N. United Provinces, India); tr.d.; local var. *11*:153
Gujarati, Gujerati: see Surti

Hassan (Mysore); South Indian type

Indo-Chinese; vars: (1) Cambodian and Moi; or (2) long-horned or krabey-beng and short-horned or krabey-leu *7*:207
Indonesian; syn. *Javanese, karbo, karbou, karbouw* (= *buffalo*) *19*:26
Iranian: see Persian
Iraqi (S.E. Iraq); d. *17*:211
Italian; d. *9*:305, *10*:217

Jafrabadi (Kathiawar, India); d.; large coiled horns; syn. *Bhavanagri*; not *Jafarabadi, Jaffarbadi, Jafferabadi, Jaffrabarri* *10*:219-20, *13*:134
Javanese: see Indonesian
Jerangi: var. of Parlakimedi; not *Zerangi*

Kanara (Madras); tr.; South Indian type; syn. *Kanarese, Malabar, South Kanara*
karbo, karbou, karbouw (Indonesia) = buffalo
kerabou, kerbau (Malaya) = buffalo
kerbau-banteng (Sumatra): see Murrah
kerbau-sawah (Malaya): see Malayan
kerbau-sungei (Malaya): see Sapi
Khalsa (Punjab, India): var. of Murrah
Kimedi (Madras-Orissa, India); tr.; South Indian type; syn. *Gowdoo*
krabey-beng (Cambodia): long-horned var. of Indo-Chinese
krabey-leu (Cambodia): short-horned var. of Indo-Chinese
Krishnagiri (Madras); South Indian type
Kundhi (Sind, India); d.; syn. *Sindhi Murrah*; not *Kundi*. [*kundhi* = fish-hook (horns)] *10*:152, *13*:134

Macedonian (Yugoslavia); d. tr. *10*:150
Mahratta, Mahratwada: see *Marathwara*
Malabar: see Kanara

Malayan; tr.; orig. from Siamese; syn. *swamp*, *kerbau-sawah* — *5*:486, *7*:89, *8*:89, *16*:287

Manaar: larger, reddish var. of Ceylon buffalo

Manda: var. of Parlakimedi

Marajó (Para, Brazil); d.m.; red and black vars. — *19*:171

Marathwara: see Nagpuri; not *Mahratwada*

Mediterranean: see Anatolian, Egyptian, European, Syrian

Mehsana (Baroda, India); d.; orig. from Murrah with Surti blood; var: Banni (Cutch); not *Mehasana* — *13*:134

Mestizo (Philippines) = Indian × Carabao — *6*:3

Middle Eastern: see Anatolian, Egyptian, Persian, Iraqi, Syrian, Transcaucasian

Mindoro: see Tamarao

Moi: var. of Indo-Chinese — *7*:207

Murrah (N. India); d.; short coiled horns; same type — Kundhi, Mehsana, Nili, Ravi; syn. *Delhi*, *kerbau-banteng* (Sumatra), *kerbau-sungei* or *Sapi* (Malaya); vars: Badavan (United Provinces), Khalsa (Punjab); not *Murra* — *10*:89, 219-20, *13*:134

Nadiad, *Nadiadi*: see Surti

Nagpuri (Central Provinces, India); tr.d.; long horns; syn. *Berari*, *Ellichpuri*, *Gaulani*, *Gauli*, *Marathwara* (Hyderabad), *Pandharpuri* (Bombay), *Varadi* — *10*:219-220, *13*:134

Netherlands Indies: see Indonesian

Nili (Punjab, India); d.; sim. to Murrah. [*nili* = blue (waters of R. Sutlej)] — *10*:89, *13*:134

Palestinian: see Syrian

Pandharpuri: see Nagpuri

Parlakimedi (Madras-Orissa); tr. (d.); South Indian type; grey; syn. *Ganjam*; vars: Jerangi, Manda, Peddakimedi

Peddakimedi: var. of Parlakimedi

Persian; tr.; syn. *Iranian*

Philippine: see Carabao

Ravi (E. Punjab, India); d.; sim. to Murrah; syn. *Sandal Bar* — *10*:89, *13*:134

Romanian; d. — *8*:3, *9*:305

Russian: see Transcaucasian

Saidi (Upper Egypt): tr.; var. of Egyptian — *6*:269

Sandal Bar: see Ravi

Sapi (Malaya); d.; = Indian (Murrah or Surti); syn. *kerbau-sungei* — *4*:163, *5*:486, *7*:89

Siamese; tr.; orig. of Malayan; syn. *Thai* — *5*:486, *8*:9

SOUTH INDIAN; tr.; sim. to Nagpuri; inc. Hassan, Kanara, Kimedi, Krishnagiri, Parlakimedi, Telingana, Toda; see also Ceylon

South Kanara: see Kanara

Surat, *Surati*: see Surti

Surti (Bombay, India); d.; syn. *Charotar, Deccani, Gujarati, Nadiadi, Talabda, kerbau-sungei* or *Sapi* (Malaya); not *Surati* — *10*:89, 214, 219-20, *13*:134

swamp: see Malayan

Syrian; syn. *Palestinian*

Talabda: see Surti; not *Talbada*

Tamamkaduwa: d.; larger var. of Ceylon buffalo

tamarao (Mindoro, Philippines) = *Bubalus mindorensis*

Tarai (United Provinces, India) — *14*:140

Telingana (Madras and Hyderabad); d.; South Indian type; not *Tellingana*

Thai: see Siamese

Toda (Nilgiris); d.; South Indian type

Transcaucasian (U.S.S.R.); d.m.tr.; syn. *Azerbaijan, Dagestan, Russian* — *4*:162, 288-9, *5*:263, *14*:12, *15*:14

Transylvanian; d. — *8*:3

Varadi: see Nagpuri

wisent: see European bison

Zerangi: see Jerangi

zubr: see European bison

zubro-bison = European × American bison — *4*:301

CATTLE

Aberdeen-Angus (N.E. Scotland); m.; black (a few red herds in England and Argentina); pd; orig. from Angus Doddie + Buchan Humlie in late 18th c.; syn. *Angus, Northern Scotch Polled, Polled Angus* — *1*:235, *3*:373, *12*:71, *15*:294-5

Abondance (Savoy, France); d.m.tr.; var. of Eastern Red Pied; syn. *Chablais* — *1*:235, *16*:111

Abori: see Red Bororo

Abosá: see Abyssinian Shorthorned Zebu

Abruzzi: var. of Apulian; It. *Podolica abruzzese di montagna*

Abyssinian Shorthorned Zebu (Ethiopia and Eritrea); d.m.; East African Zebu type, sim. to Boran of Somalia; usu. black-pied; syn. *Abosá, Begait* — *8*:330, *14*:209

Acchai: see Lohani

Achin (Sumatra, Indonesia); z.; not *Acheen*

Achiote (Guatemala); ? Criollo with Shorthorn blood; ? yellow. [= anatto]

Acreno: see Carreño

Adamawa (Cameroons); m.d.tr.; West African Zebu type; syn. *Adamawa Fulani, Adamawa Gudali, Cameroons Fulani, Cameroons Gudali*; vars: (Nigeria) Yola (with Dwarf Shorthorn blood), Banyo, and Ngaundere; not *Adamaoua* — *5*:381, *6*:193-4, *18*:29

Adar: see Azaouak

Aden (S. Red Sea coast); d.m.; red or red pied; syn. *Arab, Bahari, Berber* (Eritrea) — *5*:2

Adige: see Grey Adige

Afghan; z.; syn. *Kabuli* — *6*:367-8

[African urus] (N. Africa) = *Bos primigenius* var. *hahni* Hilzheimer; var. of urus; syn. *B. opisthonomus* Pomel; orig. of Hamitic Longhorn

African Zebu: see Afrikaner, East African Shorthorned Zebu, Sanga, West African Zebu

Afrikaner (S. Africa); m.tr.; Lateral-horned Zebu; usu. red; cervico-thoracic muscular hump; orig. from Hottentot in late 17th and 18th c.; orig. of Drakensberger; English, *Africander*; not *Afrikander* — *2*:11, 314, *5*:131, *7*:96, *8*:116-7

Agerola (Sorrento, Campania, Italy); d.; local var. orig. in 19th c. from Brown Alpine, Jersey, Friesian, and Podolian, etc.; dark; It. *Agerolese*

ah gohr: see galiba

A.I.S.: see Australian Illawarra Shorthorn

Akamba: see Kamba

Akou: see White Fulani

Alambadi (Madras, India); tr.; z.; Mysore type; syn. *Bestal, Cauvery, Kaveri, Lambadi* (Hyderabad), *Mahadeswarabetta, Malai-madu, Salem*; not *Alambady, Alambudi, Alumbadi* — *10*:152, *13*:14.

[Alb] (Württemberg, Germany); absorbed by Spotted Mountain — *9*:105

Alba: var. of Piedmont with 'horse rump'; It. *Albese* — *4*:18-19, *16*:210

Albanian; tr.d.; Iberian (*i.e. brachyceros*) type; sim. to Buša (Yugoslavia) and Greek Shorthorn; yellow to reddish-black; syn. *Illyrian* (inc. Buša); vars. inc. Albanian Dwarf and Shkodra Red — *8*:3,328, *9*:95, *16*:209

Albanian Dwarf: var. of Albanian; syn. *Illyrian Dwarf* — *9*:95

Alderney: see Channel Island

Alemtejo (Portugal); d.m.tr.; fawn; orig. from *B. primigenius*; Port. *Alemtejana*; syn. *Transtagana*; not *Alentejo* — *13*:134, *15*:220

Aleppo: see Damascus; Turk. *Halep*

Algerian: see Guelma type and Oran

Aliste: var. of Zamora; Sp. *Alistano*

Allgäu (Bavaria-Württemberg, Germany); d.m.; var. of German Brown; Ger. *Allgäuer*; not *Algau* — *4*:407-8

Alpine: see Brown Mountain, Grey Mountain, Light Alpine, Pinzgau

Alsatian Simmental (France); d.m.tr.; var. of Eastern Red Pied — *1*:235

Altai: var. of Siberian — *2*:12-13, *7*:116

Alumbadi: see Alambadi

Alur (Congo); orig. from Bahima × Lugwaret — *6*:279

Amabowe: see Setswana

Ambo (S. Angola and N. of S.W. Africa); Sanga type; usu. dun or black; pl. *Ovambo* — *1*:237, *3*:249

American Dairy Cattle (U.S.A.); d.; club founded in 1936 to register dairy cattle with performance criteria only — *10*:278-9

American Friesian: see Holstein-Friesian

Amrit Mahal (Mysore, India); tr.; z.; Mysore type; grey; orig. in 17th c. from Hallikar; former vars: (up to 1860) Chitaldrug, Hagalvadi, Hallikar; not *Amritmahal, Amrat Mahal, Amrit-mahal*.
[= nectar department, *i.e.* government dairy] — *10*:89, *13*:14, *15*:97-8

Anatolian (Syria): see Oksh

Anatolian Black (Central Anatolia, Turkey); d.m.; brachyceros type; Turk. *Anadolu Yerli Kara* (= *native black Anatolian*) — *8*:7-8, *9*:106, *11*:20, *13*:134, *15*:16

Ancient Egyptian: see Hamitic Longhorn

Andalusian (S. Spain); m.tr. bull fighting; red to black; ? orig. from Hamitic Longhorn; ? orig. of Criollo (S. America) and Texas Longhorn (U.S.A.) — *17*:9, 10-11

Andaluz (Colombia): see Horned Sinú

Angeln (Schleswig, Germany); d.; Baltic Red type, sim. to Red Danish; Ger. *Angler*; syn. *Red Angeln* — *2*:196-7, *7*:9, *8*:227-8

Anglesea, Anglesey: see North Wales Black

Angola: see Setswana, Ambo

Angoni (N.E. of N. Rhodesia); East African Zebu type

Angus: see Aberdeen-Angus

[Angus Doddie]; orig. (+ Buchan Humlie) of Aberdeen-Angus. [doddie = pd]

Anjou: see Maine-Anjou

Ankole (S. Uganda, N.W. Tanganyika, and E. Congo); Sanga type; syn. *Ankole Longhorn, Bahima* (Congo), *Nsagalla* (Uganda), *Wakuma, Watusi, Watusi Longhorn*; vars: Blukwa and Kivu (Congo), Kuku and Nyambo (Ruanda-Urundi), Kigezi and Toro (Uganda); not *Ancholi, Ankoli* — *6*:95-6, 285-6, *8*:211, 327-8

Annamese: var. of Indo-Chinese; z.; Fr. *Annamite* — *7*:207

Ansbach-Triesdorf (Middle Franconia, Germany); d.m.tr.; orig. from East Friesian and Simmental × local; Ger. *Ansbach-Triesdorfer*

Antioquia: see Black-eared White; Sp. *Antioqueño*

Aosta (N.W. Piedmont, Italy); d.(m.); It. *Valdostana*; syn. *Val d'Aosta*; vars: Black Pied, Red Pied, Oropa — *3*:234, *5*:389, *8*:19

Apulian (S. and N.E. Italy); tr.m.; Podolian type; grey; It. *Pugliese*; vars: Abruzzi, Calabrian, Lucanian, Murge, Venetian — *2*:313, *3*:253-4, *8*:23, 351

Arab (A.-E. Sudan): see Sudanese Shorthorned Zebu

Arab (S. Red Sea coast): see Aden

Arab (Syria): see Oksh

Arab (W. Africa): see Azaouak (Fr. Niger), Maure (Mauritania), or Shuwa (Chad)

Arabian (Egypt): see Maryuti

Aradó (Eritrea); tr.m.; ? Sanga or Sanga × zebu; sim. to Uogherá (Ethiopia); usu. red or red pied — *5*:2, *14*:209

Archangel: see Kholmogor

Ardebili (Persian Azerbaijan): var. of Persian

Argentine Friesian: see Holando-Argentino

Armorican (N. Brittany, France); m.d.; sim. to Maine-Anjou; red, red-and-white, or roan; orig. from Shorthorn (imported 1840 on) × local Breton, named 1923; Fr. *Armoricaine*

Aroucesa (Portugal); tr.(d); not *Arouquesa* — *15*:220, *18*:154

Arvi: see Gaolao

Asiago: see Burlina

Astrakhan: see Kalmyk

Asturian (Spain); m.tr.d.; North Spanish type; vars: Carreño (lowland) and Caso (mountain) — *13*:191, *17*:9, 10-11

Atlas: see Brown Atlas

Atpadi Mahal: var. of Khillari; syn. *Hanam*

Aubrac (Aveyron-Lozère, France); tr.d.m.; fawn to brown; syn. *Laguiole* — *7*:105

Aulie-Ata (S. Kazakhstan and N. Kirgizia, U.S.S.R.); d.; black pied (usu.); orig. (1885 on) from Friesian × Kirgiz; Russ. *Auliéatinskiĭ*. — *8*:24, *9*:304-5, *12*:12, *13*:77,135 *14*:141-2

aurochs: see urus

Australian Illawarra Shorthorn (New South Wales); d.; usu. red or roan; inc. Australian Milking Shorthorn; orig. in early 19th c. from Shorthorn, with admixture of dairy breeds; syn. *A.I.S., South Coast cattle* — *16*:15

Avila (C. Spain); tr.m.; vars: Barco, Piedrahita — *17*:9

Awankari: see Dhanni

Ayrshire (S.W. Scotland); d.; red-brown and white; orig. in late 18th and early 19th c. from Teeswater, Channel Island, etc.; obs. syns. *Cunningham, Dunlop*; orig. of Finnish Ayrshire, Swedish Ayrshire, Red Trondheim (Norway) — *1*:9, *7*:9, *10*:278-9, *14*:71-2, *18*:124

Azaouak (E. Fr. Sudan, C. Niger Colony, and N.W. Nigeria); d.; West African Shorthorned Zebu, sim. to Shuwa; variable; syn. *Adar* (Nigeria), *Arab, Azawa, Azawal* (pl. *Azawaje*), *Azawak, Damerghou* or *Tagama* (Niger Colony); Azaouak + Shuwa = *Wadara* (Nigeria) — *7*:103, *13*:14, *17*:122-3, 126-7

Azawa, Azawal, Azawaje, Azawak: see Azaouak

Azerbaijan: see Lesser Caucasus var. of Caucasian — *8*:20

Azerbaijan Zebu: see Talysh

Bachaur (Bihar, India); tr.; z.; grey-white short-horned type; syn. *Sitamarhi*; not *Bachchaur, Bachhaur, Bachur* — *9*:91, *10*:152, *13*:14

Baden Spotted: see Messkirch

Bahari (S. Red Sea coast): see Aden

Baharié (W. Africa): see Kuri; not *Bare, Borrié*. [Arabic, *behar* = sea]

Bahima: see Ankole; not *Bahema, Wahima*

Bahu: see Lugwaret

Baila (S.E. of N. Rhodesia); Sanga type; syn. *Mashukulumbwe* or *Mashuk, Tonga*; sing. *Ila*

Bajocara (Portugal)

Bakosi (Fr. Cameroons): var. of West African Dwarf Shorthorn; syn. *Bakwiri, Kosi* — *5*:265, *6*:193-4, *8*:212

Baladi (Lower Egypt); tr.; var. of Egyptian; syn. *Beheri*; subvar: Menufi; not *Balladi, Beladi*. [= native] — *6*:269, *12*:113-4

Baladi (Syria): see Damascus

Balinese (Bali, Indonesia); m.; z.; ♂ red turning black, ♀ red; orig. from banteng — *2*:290, *8*:9 *19*:26

Balkan: see Illyrian

[Ballum] (S. Jutland, Denmark); part orig. of Red Danish

BALTIC RED: see Angeln, Estonian Red, Latvian Brown, Lithuanian Red (?), [North Slesvig Red], Red Danish; orig. from *Bos brachyceros*; orig. of Bessarabian Red, Ukrainian Red — *12*:114

Bamangwato: see Setswana; syn. *Mangwato, Mongconto*

Bambara (S.W. Sudan, Fr. W. Africa); m.; yellow-brown to red; orig. from N'Dama × zebu; syn. *Mandé, Méré* — *18*:28

Bannai: see Kankrej

banteng (Malaya and Indonesia) = *Bos* (*Bibos*) *sondaicus*; var: tsine (Burma) = *B.s. birmanicus*; orig. of Balinese cattle; not *bantin* — *4*:301, *7*:206-7

Bantu: see Sanga

Banyo: var. of Adamawa

Baoulé (Ivory Coast, Fr. W. Africa); m.; usu. black pied; var. of Dwarf Shorthorn with N'Dama blood

Baraton: see Nandi

Barco: var. of Avila; Sp. *Barqueña*

Bardi (W. Emilia, Italy); tr.d.m.; sim. to Pontremoli and Tortona; red; It. *Bardigiana*; vars: Corniglio and Taro

Bare: see Baharié

Bargur (Madras, India); tr.; z.; Mysore type; usu. red-and-white; not *Barghur, Burgaur, Burghoor, Burgoor, Burgur* — *10*:152, *13*:14

Baria (Cochin-China): var. of Indo-Chinese — *7*:207

Barotse (W. of N. Rhodesia): var. of Setswana; syn. *Lozi, Rowzi*; not *Barotsi*

Barrosa (Portugal); tr.m.; black legs; orig. from *B. primigenius*; not *Barroza* — *15*:220

Barroso (Honduras and Guatemala); m.d.; ? Criollo type. [= reddish brown]

Basque: see Blond Pyrenean (France), Pyrenean (Spain)

Batanges (Philippines); orig. from Philippine Native — *8*:116

Batawana (N. W. Bechuanaland): var. of Setswana; syn. *Ndawana, N'gami*; not *Batawama, Batwane* — *3*:15-16

Batusi: see Watusi

Bavarian Red (Germany); German Red type; Ger. *Bayerisches Rotvieh*

Bavarian Spotted: see Miesbach

Bazas (Gironde-Landes, France); tr.m.d.; grey to grey-brown with pink mucosa; Fr. *Bazadaise*

Bechuana: see Setswana

Bedouin: see Oksh

Beefmaster (Texas, U.S.A.); m.; orig. from Hereford (1/4), Shorthorn (1/4) and Brahman (1/2)

Beef Shorthorn (N.E. Scotland); m.; var. of Shorthorn developed in mid 19th c.; syn. *Scotch* or *Scottish Shorthorn* — *15*:75, *16*:272-3

Begait: see Abyssinian Shorthorned Zebu

Beheri (Egypt): see Baladi

Beirut: see Lebanese

Beladi, Bélédie: see Baladi

Belgian White and Blue Pied: see Blue

belted: see Belted Galloway, Dutch Belted, and [Sheeted Somerset]

Belted Galloway (Scotland-England): var. of Galloway; black or dun with white belt; syn. *Sheeted*, or *White-middled, Galloway*

Berber: see Aden

Bergscheck (Styria, Austria); Simmental blood; syn. *Enns, Kampeten, Mountain Spotted*; not *Spotted Mountain*; rare — *3*:254, *4*:278

[Bernese] (Switzerland); orig. of Simmental; syn. *Bernese Oberland*

Bernese-Hanna, Berno-Hana: see Moravian Red Spotted

[Berry] (C. France); Fr. *Berrichonne* — *3*:26

Bessarabian Red (Moldavia, U.S.S.R.); d.tr.m.; sim. to Ukrainian Red; orig. from Red East Friesian (by Mennonites in late 18th c.), Angeln and other breeds (early 20th c.) × Ukrainian Grey — *3*:256,371, *6*:194, *8*:3,20

Bestal: see Alambadi

Bestuzhev (Bashkiria, U.S.S.R.); m.d.; red; orig. (by B. Bestužev in early 19th c.) from Kholmogor, Friesian, Simmental, Wilstermarsch, and Shorthorn, × local — *1*:8, *2*:15, *4*:166

Bettola: see Pontremoli; It. *Bettolese*

Beyrouth: see Lebanese

Bhagnari (R. Nari, Baluchistan-Sind, India); tr.d.; z.; grey-white short-horned type but usu. grey; larger type in Baluchistan and smaller in Sind; var: Dajjal (Punjab); not *Bhag Nari* — *12*:173, *13*:14

Białogrzbiety: see Polish White-Backed

Binda: see Burlina

Bisre: see Jaulan

Biu (Bornu, Nigeria); orig. from Dwarf Shorthorn × White Fulani zebu

Black Afrikaner: see Drakensberger

Black-and-White Friesland, Black-and-White Holland: see Dutch Friesian

Black-and-White Swedish: see Swedish Lowland

Black-eared White (Andes, Colombia); m.d.; orig. from Criollo; Sp. *Blanco-Orejinegro* (= *Bon*); syn. *Antioquia* (Sp. *Antioqueño*) — 7:301-2, *12*:116, *13*:17, *14*:10, *18*:156

Black Forest: see Hinterwald, Vorderwald

Black Pied Aosta: var. of Aosta; It. *Valdostana pezzata nera* — *5*:389, *8*:19

Black Pied Breton: see Breton Black Pied

Black Pied Danish (Jutland, Denmark); d.; orig. (1949) from Black Pied Jutland + Friesian; Dan. *Sortbroget Dansk Malkekvæg* (= *SDM*); syn. *Danish Black-and-White Milk*

Black Pied Dutch: see Dutch Friesian

Black Pied Hervé: see Hervé

Black Pied Jutland (Denmark); d.; Dan. *Sortbroget Jydsk Malkekvæg* (= *SJM*); syn. *Black Spotted Jutland Milk, Black and White Jutland*; joined (1949) with local Friesian to form Black Pied Danish — 7:105, *10*:22, *12*:68-9

Black Pied Lowland (N. Germany); d.m.; Friesian type; vars: East Friesian, East Prussian, Jeverland, Wesermarsch; orig. of Estonian Black Pied, Latvian Black Pied, Lithuanian Black Pied, Podolian Black Pied, Polish Black Pied Lowland; Ger. *Schwarzbuntes Niederungsvieh*; syn. *Black- (and)- White Lowland, German Black Pied, German Friesian* — *1*:13-14, *5*:263, *7*:300, *8*:234, *10*:91, *13*:13

Black Pied Podolian: see Podolian Black Pied

Black Pied Valdostano: see Black Pied Aosta

Blacksided Trondheim & Nordland (N. Norway); d.; sim. to Swedish Mountain and North Finnish; pd; Nor. *Sidet trønderfe og nordlandsfe*; syn. *Colour-sided Trondheim, Black Trondheim, Nordland, Røros* — *2*:90,186, *6*:89, *13*:121-2

Black-White: see Black Pied; Ger. *Schwarzweiss*

Blanco-Orejinegro: see Black-eared White

Blazed: see White-marked; Ger. *Blässiges*

Bleue: see Blue

Bleue du Nord (France): see Blue (Belgium)

Blond (Austria); Light Alpine type; inc. Carinthian and Styrian Blond; orig. from Bergscheck — *2*:16-17, *3*:254

Blond Moroccan: see Moroccan Blond

Blond Pyrenean (W. Pyrenees, France); tr.m.d.; yellow to yellow brown with pink mucosa; Fr. *Blonde des Pyrénées à muqueuses roses*; syn. *Basque*; *cf.* Pyrenean (Spain) — *8*:350

Blond Zaers: see Moroccan Blond

Blue (Belgium, and Nord, France); d.m.; Fr. *Bleue du Brabant, Bleue du Nord* (France); syn. *Belgian White and Blue Pied, White Meuse and Schelde*; orig. from Shorthorn and Dutch × local — *2*:109-10, *4*:173, *8*:363-4, *16*:111-2

Blue Albion (N. Derbyshire, England); orig. from white Shorthorn × Welsh Black and possibly Friesian; syn. *Blue English*; rare

Blue Grey: white Shorthorn × Galloway, 1st cross

Blukwa (W. of L. Albert, Belgian Congo): var. of Ankole selected by Chief Blukwa

Bohemian Red: see Chebsko; Czech, *České červinky*

Bohemian Red Spotted: var. of Czechoslovak Red Spotted; syn. *Bohemian-Berne, Bohemian-Simmental* — *11*:91, 222

Bokoloji: see Sokoto

Bolowana (Cape Province, S. Africa); Sanga type — *1*:14

Bon: see Black-eared White

Bonyhádi (County Tolna, Hungary); d.; var. of Hungarian Red Spotted; not *Bonyhád*

Boran (N. Kenya-S. Ethiopia-Somalia); m.; East African Zebu type; usu. white or grey, also red or pied; bred in Ngong herd (Kenya); syn. *Gasara* (Somalia); unimproved Galla or Somali var., and improved var. on ranches in Kenya probably with some European blood; not *Boram* — *3*:377, *4*:407, *17*:224, *18*:13

Bordeaux (France); d.; Dutch and Breton blood; black, with white-speckled body; Fr. *Bordelaise*; local, rare

Borgu (Dahomey-Nigeria); usu. white, black-and-white, or reddish, often colour-sided; orig. from humpless (N'Dama and Dwarf Shorthorn) × zebu (White Fulani); Fr. *Borgou*; syn. *Borgawa, Dahomey, Kaiama, Ketaku, Kettije, Mere-Lobi* (Ivory Coast) — *7*:90, *8*:348, *13*:14, 15

Bororo, Red: see Red Bororo

Bororo, White: see White Fulani

Borrié: see Baharié

Bosnian: see Buša

Boudouma: see Buduma

Boz Step (= *Grey Steppe*): see Plevna

BRACHYCEROS (Europe); *i.e.* derivative of *Bos taurus brachyceros* (Adametz); usu. red, brown, or black; short horns, deep forehead, small; inc. Baltic Red, Central European Red, Iberian, *et. al.*

Braford (U.S.A.): Brahman × Hereford, 1st cross — *12*:71

Brahaza: see Red Bororo

Brahman (S. of U.S.A.); z.; usu. silver-grey; orig. from Ongole, Kankrej, Gir, and Krishna Valley breeds imported 1850-1906, probably with some European blood

Brahorn (U.S.A.): Brahman × Shorthorn, 1st cross — *12*:71

Brangus (Oklahoma, U.S.A.); usu. black and pd; backcross of Brahman × Aberdeen-Angus to Aberdeen-Angus ♀

Brazilian Polled (São Paulo, Brazil); m. (d.); ? orig. from Crioulo; Port. *Mocha nacional* — *8*:128, *15*:166-7

Breitenburg: var. of Red Pied Holstein; Ger. *Breitenburger*

[Bressane]: fused in Eastern Spotted (France) — *3*:253

Breton Black Pied (S. Brittany, France); d.; Fr. *Bretonne pie-noir*; syn. *Breton, Brittany, Morbihan* — *19*:42

British Friesian (Gt. Britain); d.; var. of Friesian from imports (chiefly Dutch) since late 19th c.; syn. *British Holstein* — *17*:225

British White (Gt. Britain); d.m.; white with black or red points; syn. *Park, White Forest, Wild White*; vars: White Horned and White Polled — *8*:227, *17*:224, *18*:155

Brittany: see Breton Black Pied

Brown: see Brown Mountain; Ger. *Braunvieh*

Brown Alpine (Italy, esp. Lombardy, E. Piedmont, and N.W. Venetia); d.; var. of Swiss Brown; It. *Bruna alpina*; syn. *North Italian Brown, Svitto, Svizzera*; var: Rendena — *2*:313, *3*:249-50, 253-4, *5*:129-30, *10*:215, *17*:20,332

Brown Atlas (French North Africa); tr.d.m.; Iberian type, sim. to Libyan; inc. Guelma and Moroccan, each with vars. — *15*:81

Brown Finnish: see West Finnish

Brown Moroccan: see Moroccan Brown

Brown Mountain; d.m. (tr.); inc. Swiss Brown and its varieties, viz. Brown Alpine (Italy), German Brown, — *4*:288, *5*:129-30, *10*:90

Montafon and Styrian Brown (Austria); sim. to Grey Mountain; Ger. *Braunes Gebirgsvieh*; syn. *Brown, Grey-Brown Mountain*

Brown Sardinian (N. Sardinia); d.; orig. from Sardinian graded up with Brown Alpine (c. 1880 on); It. *Bruno-sarda*; syn. *Sardo-Schwyz, Sardo-Swiss, Svitto-Sarda, Ozieri* — *3*:373-4, *4*:167, *8*:347, *9*:103-4, 210-11, *17*:19

Brown Swiss (U.S.A.); d.; orig. from *c.* 155 Swiss Brown imported 1869-1906 — *5*:276, *10*:278-9

Bruna alpina: see Brown Alpine

Bruno-sarda: see Brown Sardinian

[Buchan Humlie] (Scotland); orig. (+ Angus Doddie) of Aberdeen-Angus; syn. *Polled Aberdeenshire*. [humlie = pd]

Bucşan: var. of Romanian Steppe, sim. to Moldavian but darker and smaller; Ger. *Bukschaner*; not *Bukshan* — *6*:194, *8*:3

[Budějovice] (Bohemia, Czechoslovakia); d.m.tr.; sim. to Bergscheck; yellow to grey; Ger. *Budweiser*

Buduma: see Kuri; Fr. *Boudouma*; not *Budduma, Budumu*

Bukedi (N.C. Uganda); East African Zebu type; syn. *Lango, Nkedi, Teso* — *17*:87

Bukschaner, Bukshan: see Buçsan

Bulgarian Grey, Bulgarian Steppe: see Iskar

Bunaji: see White Fulani

Burgaur, Burghur, Burgoor, Burgur: see Bargur

Burlina (Venetia, Italy); d.m.; black pied; syn. *Asiago, Binda, Pezzata degli altipiani* (= *pied highland*) — *2*:313, *3*:253-4, *6*:194, *8*:351

Burmese; tr.; z.; usu. red or yellow

Burmese banteng: see tsine

Burmese gaur = *Bos* (*Bibos*) *gaurus readi*; var. of gaur; Burmese, *pyaung, pyun*

Buša (S. of R. Sava, Yugoslavia); Iberian (*i.e. brachyceros*) type; shades of brown; red var. in Croatia and Metohija (Serbia), blue var. in Macedonia; syn. *Illyrian* (inc. Albanian); orig. (with Yugoslavian Steppe) of Kolubara and other local vars.; not *Busa, Buscha, Busha* — *6*:188, *8*:3-4, 352, *13*:66, *15*:167

Bushuev (Uzbekistan, U.S.S.R.); Friesian, Swiss Brown, and Simmental grades of local zebu; syn. *Tashkent* — *9*:10,105-6,107

Butana: var. of Sudanese Shorthorned Zebu; red; ? orig. of Shendi — *14*:14

Byelo-Russian Red: see White-Russian Red

Caceres: see White Caceres

Calabrian: var. of Apulian; It. *Calabrese*; syn. *Cotrone, Crotone* — *4*:2-3

Caldelano: see Castro Caldelas

Calvana: var. of Chiana — *2*:310

[Camandona] (Piedmont, Italy); local var. absorbed by Brown Alpine — *18*:27-8

Camargue (Rhone Delta, France); half wild, used for bull fights; black or brown; few and local

Cambodian: var. of Indo-Chinese; small hump; Fr. *Cambodgien* — *7*:207, *8*:9

Cameroons Fulani, Cameroons Gudali: see Adamawa

Campine (N. Belgium); d.m.; Fr. *Campinoise*, Fl. *Kempen*; syn. *Red Pied Campine* — *5*:249, *8*:363-4, *16*:108

Campóo: valley var. of Santander; Sp. *Campurriana* — *12*:67, *17*:10-11

Canadian (Quebec); d.; usu. black or brown; orig. from late 17th c. imports from Normandy and Brittany; syn. *French Canadian, Quebec Jersey* — *4*:16, *19*:153

Canadian Friesian: see Holstein-Friesian

Caracú (São Paulo, Brazil); m.; long-horned; Sp. orig. [? from Tulpian *Acarahu, cf.* R. Acaracu] — *5*:13,16, *7*:114, *12*:11, *16*:92

Carinthian Blond (Austria); Light Alpine type, sim. to Styrian Blond; Ger. *Kärnter Blondvieh*; syn. *Lavanttal* — *1*:92-3, *2*:314-5, *7*:103

Carpathian Brown (Trans-Carpathian Ukraine, U.S.S.R.); d.; orig. from local graded to Brown Mountain (1879 on) — *15*:162-3, *19*:43-4

Carpi: see Modena; It. *Carpigiana*

Carreño: lowland var. of Asturian; not *Acreno* — *17*:10-11, *19*:43

Caso: mountain var. of Asturian; Sp. *Casino* — *17*:10-11, *19*:43

[Castle Martin]: var. of South Wales Black

Castro Caldelas: var. of Galician; Sp. *Caldelano* — *17*:10-11

cattalo (N. America) = domestic bull × American bison cow, F_2 or later; not *catalo* — *4*:297, *10*:88

Caucasian (U.S.S.R.); d.; Russ. *Kavkazskiĭ*; syn. *Transcaucasian*; smaller, usu. black, var. on Greater Caucasus (inc. Dagestan and Georgian Mountain); larger, usu. red, var. on Lesser Caucasus and in Transcaucasian lowlands (inc. Azerbaijan) — *3*:374-5, *7*:116, *8*:20, *11*:88,216

Cauvery: see Alambadi

Cecina: see Chiana-Maremma; It. *Cecinese*

[Celtic Red] = *B. brachyceros* Adametz; orig. of Baltic Red, Central European Red, etc. — *5*:265

Central Asiatic type; see Turano-Mongolian

CENTRAL EUROPEAN RED; inc. Chebsko, Lithuanian Red (?), German Red, Moravian Red, Polish Red, Silesian Red, Slovakian Red, White-Russian Red; orig. from *B. brachyceros*; orig. of Sudeten, Waldviertel — *3*:371-2, *5*:265

Central Pyrenean (France); chestnut; Fr. *Race des Pyrénées Centrales*; syn. *Race de Saint Girons et d'Aure*; local, few.

Ceylon: see Sinhala

Chablais: see Abondance; Fr. *Chablaisienne*

Chad: see Kuri

Chaissi: see Oksh

Channel Island: see Jersey, Guernsey; French orig.; obs. syn. *Alderney* — *9*:283-4, *10*:278-9

Chaouia (Constantine, Algeria): var. of Guelma type of Brown Atlas

Charbray (Texas, U.S.A.); Charollais × Brahman back-crossed to Charollais

Charollais (C. France); m. (tr.); white with pink mucosa; not *Charolais*. [Charolles district] *1*:241-2, *2*:205, *3*:251, *8*:116

Chebsko (Bohemia); d.m.tr.; Central European Red type; Ger. *Egerländer*; syn. *Bohemian Red*; not *Cheb*; rare *4*:277

Cheurfa (Constantine, Algeria); light grey var. of Guelma type of Brown Atlas

Chiana (Tuscany, Italy); m.tr.; white with black points and mucosa; ? orig. from Podolian × native; It. *Chianina*; vars: Calvana, Perugia, Valdarno, Val di Chiana; orig. (with Podolian) of Marche and Pasturina *5*:271-2, *7*:9-10, *18*:31

Chiana-Maremma (Tuscany, Italy); m.tr.; grey-white; orig. from Chiana × Maremma; It. *Chianino-maremmana*; syn. *Cecina, Improved Maremma*

China (Brazil); orig. from Crioulo with zebu blood

Chinese Yellow (S. and E. China); tr.; usu. yellow, also brown, red or black; zebu orig.; syn. *Chinese, South China Draft*; Chinese, *Huang niu* (= *yellow cattle*) *6*:276, *12*:116

Chino (Honduras); m.d.; ? Criollo type. [= hairless]

[Chitaldrug]: former var. of Amrit Mahal now merged in Hallikar; not *Chitraldrag, Chittaldroog* *15*:97-8

Choa: see Shuwa; not *Choas*

Choletais: see Parthenay

Cholmogor: see Kholmogor

Chosen: see Korean

Chusco (Peru); Criollo type. [? etym.]

Çildir: var. of East Anatolian Red; not *Cildi*

Coastal Horned (Colombia): see Horned Sinú

Coastal Polled: see Polled Sinú

Cobra: see Gobra

Coloniã (Brazil)

Colonist: see Whiteheaded Colonist

Colour-sided; syn. *N'kone* (Zulu), *Rückenscheckig* (= back pied) (Ger.)

1. White tail, back stripe and belly; coloured head and legs; see Pinzgau, Gloucestershire and [Glamorgan]
2. White tail, back, and underside; white or parti-coloured head and legs; see Telemark, Blacksided Trondheim & Nordland, East Finnish, Longhorn, Vosges, Black Forest (often), Glatz Mountain, Sudeten Spotted (often), Kravařsko, Polish Whitebacked, Istoben (often), Ukrainian Whitebacked
3. White with coloured points (muzzle, inside ears, etc.); colour on sides reduced to a few spots only, or absent; see North Finnish, Swedish Mountain, Blacksided Trondheim & Nordland (often), Polish Marsh, British White, Black-eared White (Colombia)

Colour-sided Trondheim: see Blacksided Trondheim&Nordland
Colubara: see Kolubara
[Comtois] (France): fused in Eastern Spotted — *3*:253
Corniglio (W. Emilia, Italy); greyish-red, small, var. of Bardi; It. *Cornigliese*
Correi: see Magal
Corsican; prim.; Fr. *Corse*; *cf.* Sardinian
Cotrone: see Calabrian
Creole: see Criollo
Cretan Lowland: var. of Greek Shorthorn; syn. *Messara* — *3*:24
Cretan Mountain: var. of Greek Shorthorn — *3*:24
Crimean Red: see Ukrainian Red
Criollo (Spanish America); Sp. orig., sim. to Texas Longhorn; syn. *Creole* (British Guiana and West Indies); vars. inc. Horned Sinú (Colombia), Barroso and Chino (Honduras), Barroso and Achiote (Guatemala), Chusco (Peru); orig. of Black-eared White (Colombia) and (with British breeds) of Polled Sinú (Colombia). [= native] — *12*:116, *13*:12-13, 17
Crioulo (Brazil); m.; sim. to Criollo; yellowish to orange; Iberian orig.; not *Criôlo*. [= native] — *15*:222
Crotone: see Calabrian; It. *Crotonese*
Cuiabano: see Curraleiro
Çukurova (Turkey): var. of South Anatolian Red; orig. from Anatolian Black × Aleppo (*i.e.* Damascus); not *Cukurova* — *8*:8-9
Curraleiro (N.E. Brazil); sim. to Crioulo; tawny; Iberian orig.; var: Pantaneiro; syn. *Cuiabano*; not *Curraliera*. [*curraleiro* = penned] — *15*:221-2, *17*:332
Cyprus; tr.; zebu × *brachyceros* orig.; sim. to Damascus, Lebanese and Egyptian; fawn to black; vars: Messaoria (plains), Paphos (hills) — *3*:122-3,139
Czechoslovak Red Spotted; d.m.tr.; orig. from Bernese and Simmental × Chebsko and Moravian Red; vars: Bohemian, Kravařsko, Moravian, Schönhengst
Czerwony Polski: see Polish Red

Dagestan Mountain (U.S.S.R.): dwarf var. of Caucasian; not *Daghestan*, *Dhagestan* — *15*:14
Dahomey: see Borgu
Dairy Shorthorn (Gt. Britain); d.m.; var. of Shorthorn (1905 on); *cf.* Milking Shorthorn (U.S.A.) — *19*:127
Dajjal (W. Punjab): var. of Bhagnari; not *Dajal*, *Dazzal*
Damara (S.W. Africa): var. (by adoption) of Setswana; syn. *Herero*
Damascus (Syria); d.; zebu blood, sim. to Lebanese, Cyprus, and Egyptian; brown; syn. *Aleppo*, *Baladi*, *Halabi*, *Halep* (Turkey), *Shami* — *7*:205, *8*:8-9, *15*:97
Damerghou: see Azaouak

Damietta (N. Delta, Egypt); d.; var. of Egyptian; syn. *Domyati, Dumiati, Dumyati* — *6*:269, *12*:113-4

Dangi (Bombay, India); tr.; z.; sim. to Deoni and Gir; syn. *Ghauti, Kanada, Konkani*; vars: Kalakheri (black-and-white), Sonkheri (red-and-white) — *10*:152, *13*:14

Danish Red: see Red Danish

Danube (Austria): var. of Spotted Mountain; Ger. *Donau*

[Darbalara]: strain of Australian Milking Shorthorn; latter now absorbed by Australian Illawarra Shorthorn — *16*:15

Dauara: see Gherra

[Demonte]: var. of Piedmont — *18*:27-8

Deoni (W. Hyderabad, India); d.tr.; z.; sim. to Dangi and Gir; black- or red-and-white; syn. *Dongarpatti* — *13*:14

Desan: see Gir

desi (India) = local, indigenous; z.; not *deshi*

Devarakota (Madras, India); z.; local var. sim. to Ongole — *13*:133

Devon (England); m.; sim. to Sussex; cherry red; syn. *North Devon, Red Ruby*; m.d. var. in E. Devon; see also South Devon — *15*:15, *18*:27

[Dewsland]: var. of South Wales Black

Dexter (Éire); d.m.; red or black; short-legged (achondroplastic); orig. from Kerry; syn. *Dexter-Kerry*; + Kerry = Irish Dexter (U.S.A.) — *2*:205, *4*:302

Dexter-Kerry (Cape Province, S. Africa); d.; dun and black; orig. from Kerry with Ayrshire, Jersey, Shorthorn and Friesian blood

Dhagestan: see Dagestan

Dhanni (N.W. Punjab, India); tr.; z.; white with black (or red) spots; obs. syn. *Awankari, Pakhari, Pothwari*; not *Dhani, Dhaniri* — *6*:367-8, *10*:89, *13*:14, *14*:74

Diali (W. Niger Colony); m.; West African Zebu type; white or pied; variable (esp. horns); syn. *Djeli, Jali, Jeli, Peul Nigérien* (Fr.) — *7*:104, *13*:14

Dinka: see Wadai-Dinka

Dishti: var. of Iraqi, sim. to Iranian (small or no hump); light tan to cream or golden. [*dishti* = living in open] — *17*:211

Djafoun: see Red Bororo

Djakoré (Senegal, Fr. W. Africa); m.; Senegal Fulani zebu × N'Dama cross — *17*:123

Djeli: see Diali

Dobbá: see Uogherá

Dobruja (Romania); *brachyceros* type; Rom. *Dobrogea*

Døle (Norway); d.; vars: Gudbrandsdal (dark brown), Østerdal (black); not *Döl* — *2*:90,186, *6*:89, *13*:121-2, *18*:39

Domshino: see Yaroslavl; Russ. *Domšinskii*

Domyati: see Damietta

Donau: see Danube

Dongarpatti: see Deoni

Dongola; tr.d.; var. of Sudanese Shorthorned Zebu; red — *15*:235
Dongolé: see Kuri
[Donnersberg] (Germany); orig. in 18th c. from Bernese × native; orig. and var. of Glan-Donnersberg — *4*:16-17
Dörtyol (Turkey): small var. of South Anatolian Red; sim. to Oksh — *8*:8-9
Doukkala: local var. of Moroccan — *6*:278
Drakensberger (Natal); d.m. (tr.); black; orig. (1947) from Uys + Kemp + Tintern Black (*i.e.* from Afrikaner × Friesian) — *16*:16
Drontheimer: see Trondheim
Dscholan: see Jaulan
Dumiati, Dumyati: see Damietta
Dun Galloway: colour var. of Galloway
Durham: see Shorthorn
Dutch (1): see Dutch Friesian, Groningen, Meuse-Rhine-Issel
Dutch (2): see Lowland, Black Pied Lowland, or Friesian
Dutch Argentine: see Holando-Argentino
Dutch Belted (U.S.A.); d.; black with white belt; orig. from Lakenvelder imported 1838-1907 — *1*:234, *11*:17
Dutch Black-and-White, Dutch Black Pied, Dutch Lowland: see Dutch Friesian
Dutch Friesian (Netherlands); d.m.; Du. *Zwartbont Friesch-Hollands* (= *Black-Pied Dutch Friesian*); syn. *Black-and-White Holland, Black Pied Dutch, Dutch Black-and-White, Dutch Lowland, Holland, Netherlands Black Pied, West Friesian*; orig. of British Friesian, Holstein-Friesian (U.S.A.), Friesland (S. Africa), Turino (Portugal), *et al.*, and (with East Friesian) of East Prussian, Polish Black Pied, Swedish Friesian, *et al.* — *3*:246-7, *5*:266-8, *13*:1, *16*:94
dwarf, *i.e.* height at withers 100 cm. or less.
  Europe: see Albanian Dwarf, Dagestan Mountain, Posavina (Yugoslavia), Rhodope (Bulgaria), Walachian Dwarf (Slovakia), West Macedonian (Greece)
  Asia: see Indian Hill, Siam-Kedah, Sinhala (Ceylon), Tibetan
  Africa: see West African Dwarf Shorthorn, Nuba Mountain (A.-E. Sudan), Kabyle (Algeria)
  America: see Puerto Rican
Dwarf Humpless, Dwarf Shorthorn (W. Africa): see West African Dwarf Shorthorn
dzo: see zo

East African Shorthorned Zebu (Sudan to Nyasaland); m.tr.; thoracic musculo-fatty hump; inc. Abyssinian, Angoni (N. Rhodesia), Kenya, Lugwaret (Congo), Madagascar (?), Nyasaland, Somaliland, Sudanese, Tanganyika,

Uganda; syn. *E. African Humped, E. African Zebu, Shorthorned Zebu*

East Anatolian Red (N.E. Turkey); d.m.; orig. from Caucasian; vars: Çildir, Göle; Turk. *Şarkî Anadolu Kırmızı* — *1*:4, *8*:7-8, *13*:134, *15*:16

Eastern Red Pied (E. France); d.m.tr.; inc. Abondance, Alsatian Simmental, Eastern Spotted, Gessienne, Montbéliard; orig. from Bernese or Simmental; Fr. *Pie rouge de l'Est*

Eastern Spotted (E. France); d.m.tr.; var. of Eastern Red Pied; orig. from Simmental × local in Côte d'Or (Bressane, Comtois, and Feme); Fr. *Tachetée de l'Est*; syn. *Pied Eastern, Red Spotted* — *3*:253, *4*:290, 409

East Finnish; d.; red-and-white (colour-sided) var. of Finnish; Finn. *Itä-Suomalainen Karja* (= *ISK*); syn. *Red-and-White Finnish, Red Pied Karelian* — *3*:3-4, *6*:89, *10*:93,95, *12*:58

East Flemish Red Pied (East Flanders, Belgium); d.m.; orig. from Shorthorn and Dutch × local; Fr. *Pie-rouge de la Flandre orientale*; syn. *Red Pied Flemish* — *5*:249, *8*:363-4, *16*:108-9

East Friesian (Germany); d.m.; var. of Black Pied Lowland; also Red and Red Pied vars.; Ger. *Ostfriesen, Ostfriesisches*; syn. *Black Pied East Friesian, East Friesland* — *1*:11-12, *2*:103, *3*:256, *5*:131, *7*:9,300, *10*:219

East Friesian Red Pied: see Red Pied East Friesian

East Macedonian (& Thrace): var. of Greek Shorthorn

East Prussian: d.m.; var. of Black Pied Lowland; orig. from East Friesian and Dutch Friesian, imported in mid 19th c.; Ger. *Ostpreussen, Ostpreussisch Holländer* — *4*:290, *11*:89-90

East Styrian Spotted (Austria): var. of Spotted Mountain; Ger. *Oststeierisches Fleckvieh* — *3*:254

Egerland: see Chebsko; Ger. *Egerländer*

Egyptian; tr.(d.); *brachyceros* with zebu blood, sim. to Cyprus, Damascus, and Lebanese; yellow-brown to black; vars: Baladi (inc. Menufi) and Damietta (Lower Egypt), Saidi (Upper Egypt), and Maryuti (Western Desert)

[Elling] (Germany); orig. from Grey Mountain × native Franconian red; absorbed by Yellow Franconian — *13*:15

English Longhorn: see Longhorn

Enns: see Bergscheck

Epirus: var. of Greek Shorthorn

Eringer: see Hérens

Estonian Black Pied; d.; orig. from Black Pied Lowland — *9*:289, *12*:114

Estonian Brown: see Estonian Red

Estonian Native; d.; red with white flecks; pd; orig. from West Finnish × local; orig. (with Angeln and Red Danish) of Estonian Red — *6*:2, *9*:289, *11*:223, *12*:114

Estonian Red; d.; Baltic Red type; orig. from Angeln and Red Danish × native; syn. *Estonian Red-Brown, Estonian Brown* — *6*:2, *9*:289, *11*:223, *12*:114

European wild ox: see urus

Extremadura (Spain); tr.m.; Sp. *Extremeña*; syn. *Colorada* (= red) — *17*:9,11

Faeroes; d.; ? Nor. orig.; Dan. *Faerøerne* — *15*:14, *18*:16

Falkland: see Fife Horned

Fao: see Jenubi

Fellata (Chad); West African Shorthorned Zebu type, sim. to Shuwa but larger hump and bred by Fulani; not *Filata*. [= Fulani]

[Feme] (France): fused in Eastern Spotted — *3*:253

Ferrandais (Puy-de-Dôme, France); tr.d.(m.); brick-red and white — *4*:413

[Fife Horned] (E. Scotland); syn. *Falkland*

Filani: see Fulani

Filata: see Fellata

Finnish; d.; pd; vars: East Finnish (red-and-white), North Finnish (white), West Finnish (red) — *6*:89, *10*:95, *16*:87-8, *18*:362

Finnish Ayrshire; d.; var. of Ayrshire from cattle imported 1847-1923 — *4*:289, *10*:220, *15*:15, *16*:304

Fjäll: see Swedish Mountain

Fjord: see Vestland Fjord

Flamande: see Flemish

Flanders, Flandrine: see Flemish

Fleckvieh: see Spotted Mountain

Flemish (Belgium): see East Flemish Red Pied, Red West Flemish

Flemish (Flanders, France); d.; mahogany; Fr. *Flamande, Flandrine*; vars: Maroilles, Picardy — *2*:109-10, *4*:173, *7*:104

Flemish Red Pied: see East Flemish Red Pied

Fogha: see Red Bororo

Foula, Foulah, Foulani, Foulawa, Foulbé: see Fulani

Fouta Djallon, Fouta Jallon: see N'Dama

Fouta Malinke, Fouta Longhorn: see N'Dama

Franconian: see Yellow Franconian

Franqueiro (Brazil); long-horned; Sp. orig.

Frati (N. Italy); d.; Brown Alpine × Friesian, 1st cross; *cf.* Preti. [*frate* = friar, *i.e.* dark brown] — *17*:337

Freiburg: see Fribourg

French Canadian: see Canadian

Friauler: see Red Pied Friuli

Fribourg (Switzerland); d.m.tr.; black pied; Fr. *Fribourgeoise*, Ger. *Freiburger*; syn. *Swiss Black Spotted* — *2*:406

Friesian; d.(m.); black-and-white; vars. inc. Dutch Friesian (original), Black Pied Lowland (Germany), British Friesian, Holstein-Friesian (U.S.A.), Friesland (S. Africa), Holando-Argentino, Danish Black Pied, Swedish Friesian and Estonian, Latvian, Lithuanian, Podolian and Polish Black Pied; not *Frisian* — *14*:275, *19*:175-6

Friesland (S. Africa): var. of Friesian

[Friuli] (Venetia, Italy); syn. *Red Friuli*; orig. (with Simmental) of Red Pied Friuli — *3*:234

Friuli-Simmental: see Red Pied Friuli; It. *Simmenthal-friulana*

Froment du Léon (St. Brieuc, Brittany, France); d.; local, rare. [*froment* = corn coloured]

FULANI (W. Africa): z.; see Senegal Fulani, Sudanese Fulani, Diali (Fr. Niger), White Fulani (Nigeria), Red Bororo, Fellatâ (Chad), Adamawa (Cameroons); Fr. *Peul* (*Peulh, Peulhé, Peuhl,* or *Peul-Peul*); Hausa, *Fulani, Filani* or *Fulawa* (sing. *Fula* or *Fulah*); Kanouri (Chad), *Fellata* or *Filata*; syn. *Foulbé* or *Fulbé* (sing. *Pullo* or *Poulo*, also *Poul-Poulo, Poul-Foulo*).
[Fulani are cattle-owning tribe]

Fünen: see Red Danish; Dan. *Fynsk*

Futa, Futa Jallon: see N'Dama

Gabaruyé: see Maure

Gabassaé: see Red Bororo

Gadéhé: see Red Bororo

Gajamavu: see Gujamavu

galiba (Tibet); back cross of zo (yak-cattle hybrid) to yak or cattle; syn. *ah gohr* — *14*:224

Galician (N.W. Spain); tr.m.d.; North Spanish type; Sp. *Gallega*; vars: Castro Caldelas (dark), Marelo (blond), Teixo (dark blond), Varelo (light blond) — *2*:189, *12*:67, *13*:188-9, *17*:9,10

Galla (Kenya-Ethiopia): unimproved var. of Boran

Galloway (S.W. Scotland); m.; brownish black; pd; syn. *Southern Scots Polled*; vars: Belted Galloway, Dun Galloway — *18*:262

Gambia (W. Africa): var. of N'Dama, ? with Dwarf Shorthorn and/or zebu blood; syn. *Futa, Gambia Shorthorn* — *7*:195

Gambia Dwarf: var. of West African Dwarf Shorthorn; syn. *West African Shorthorn* (*Gambia strain*); nearly extinct — *7*:195

Gaolao (Central Provinces, India); d.tr.; z.; grey-white short-horned type; syn. *Arvi, Gaulgani* — *13*:14

Garbalov: see Gorbatov

Garfagnana (N.W. Tuscany, Italy); d.m.tr.; grey; It. *Garfagnina* — *5*:390-1, *8*:17-18

Garonne (Lot-et-Garonne, France); m.tr.; yellow or yellow-brown; Fr. *Garonnais*

Gascony (France); tr.m.(d.); grey with black points and mucosa; Fr. *Gasconne*; vars: à muqueuses noires (= with black mucosa) and aréolée (= with pink aureole round anus and vulva) — *5*:14, 17

Gaulan: see Jaulan

Gaulgani: see Gaolao

gaur (India) = *Bos* (*Bibos*) *gaurus* Smith; syn. *Indian bison*; vars: Burmese gaur = *B.g. readi*, seladang (Malaya) = *B.g. hubbacki*; ? orig. of gayal; not *gour* — *5*:264, *7*:206-7, *9*:210

gayal (Assam and Burma) = *Bos* (*Bibos*) *frontalis* Lambert; ? orig. from gaur (domesticated), zebu (feral), or gaur × zebu; syn. *mithan* — *4*:301, *5*:138-9,264, *13*:190-1

Georgian Mountain: see Greater Caucasus var. of Caucasian — *3*:374-5

German Black Pied: see Black Pied Lowland; Ger. *Deutsches Schwarzbuntes*

German Brown (Bavaria); d.m.(tr.); var. of Brown Mountain; Ger. *Deutsches Braunvieh*; subvars: Allgäu, Murnau-Werdenfels — *2*:199, *5*:265, *13*:15

German Friesian: see Black Pied Lowland

German Red; d.m.tr.; Central European Red type; inc. Bavarian Red, Harz, Odenwald, Sechsämter, Siegerland, Silesian Red, Vogelsberg, Vogtland, Waldeck; Ger. *Deutsches Rotvieh*; syn. *Middle German Red*, *Red cattle of Central Germany*, *Red Hill* (*Rotes Höhenvieh*); not *Red German* — *9*:306, *10*:15,91,152, *12*:184, *15*:99

German Red Pied: see Red Pied Lowland; Ger. *Deutsches Rotbuntes*

German Simmental: see Spotted Mountain; Ger. *Deutsches Simmentaler*

German Spotted: see Spotted Mountain; Ger. *Deutsches Fleckvieh*

Gessienne (France): var. of Eastern Red Pied

Gharb: local var. of Moroccan

Ghauti: see Dangi — *6*:278

Gherra (Somalia); tr.m.d.; East African Zebu type; red; syn. *Dauara* — *3*:377, *5*:2

Giddu: see Jiddu

Gilan (N. Persia); mountain var. of Persian

Gir (Kathiawar, India); d.tr.m.; z.; sim. to Dangi and Deoni; mottled; syn. *Desan*, *Kathiawari*, *Surti* or *Sorthi*; orig. (with Khillari) of Nimari; not *Gyr* — *6*:367-8, *10*:89, *13*:14, *14*:74

Giriama (S. Kenya); local East African Zebu

[Glamorgan] (Wales); sim. to Gloucestershire

Glan (Germany); orig. in 18th c. from Swiss Brown × native; orig. and var. of Glan-Donnersberg — *4*:16-17, *10*:13

Glan-Donnersberg (Palatinate and S. Rhineland, Germany); Yellow Hill type; orig. in 1890 from Glan + Donnersberg; Ger. *Glan-Donnersberger* — *4*:16-17,161, *7*:103

Glatz Mountain (Silesia); tr.d.; Mottled Hill type; red or brown with white head, back stripe, and belly; orig. from Sudeten; Ger. *Glatzer Gebirgsrind*; syn. *Silesian White-back* — *2*:207-8

Gloucestershire (England); d.; nearly extinct; sim. to Glamorgan; black-brown, colour-sided with coloured head; syn. *Gloucester*, *Old Gloucestershire*

Gobra: see Senegal Fulani; not *Cobra*

Godali: see Gudali

Golan: see Jaulan

Gold Coast Shorthorn (W. Africa); mixed type; ? orig. from Dwarf Shorthorn, N'Dama, and zebu; syn. *West African Shorthorn* — *6*:96, *9*:280, *16*:4

Göle: var. of East Anatolian Red; not *Köle*

Goodhope Red: see Jamaica Red

[Goomsur] (Orissa, India); tr.; z.; not *Gumsur*

Gorbatov Red (Gorki, U.S.S.R.); d.m.; orig. (in 19th c.) from Tux × local; Russ. *Krasnogorbatovskiĭ* (= *Red Gorbatov*); syn. *Oka*; not *Garbatov* — *1*:8, *9*:10

gour: see gaur

Greater Caucasus (U.S.S.R.); smaller, usu. black, var. of Caucasian; Russ. *Velikokavkazskiĭ*; inc. Dagestan and Georgian Mountain

Greek Shorthorn; tr.m.; Iberian type, sim. to Albanian and Buša (Yugoslavia); grey-blond to dark brown; vars: Cretan Lowland, Cretan Mountain, Epirus, Mainland, West Macedonian, Peloponnesus, Thessaly, East Macedonian (& Thrace) — *3*:24

Greek Steppe (N.E. Greece); tr.; Grey Steppe type — *3*:24

Grey Adige (Venetia, Italy); tr.d.m.; Grey Mountain type; It. *Grigia di Val d'Adige*; syn. *Ulten* (Ger.), *Ultimo* (It.) — *2*:313, *3*:253-4, *8*:351

Grey Alpine (Venice, Treviso, S. Belluno, and W. Udine, Venetia, Italy); tr.d.m.; Grey Mountain type; It. *Grigia* (or *bigia*) *alpina*; not *Grey Swiss* — *2*:313

Grey-Brown (Mountain); see Brown Mountain; Ger. *Graubraunes (Höhen) Vieh*

Grey Bulgarian: see Iskar

grey Cambodian: see kou-prey

Grey Hungarian: see Hungarian Steppe

Grey Mountain; sim. to Brown Mountain; inc. Grey Adige and Grey Alpine (Italy), Oberinntal (Austria); Ger. *Grauvieh, Graues Gebirgsvieh*

Grey Sindhi: see Tharparkar

GREY STEPPE (S.E. Europe); tr.; grey-white, grey, or white; long lyre horns; inc. Ukrainian Grey, Romanian Steppe, Transylvanian, Hungarian Steppe, Yugoslavian Steppe, Mursi (Albania), Greek Steppe, Iskar (Bulgaria), Plevna (Turkey), Podolian (Italy); orig. from *Bos primigenius*; syn. *Podolian, Steppe*

Grey Transylvanian: see Transylvanian

Grey Ukrainian: see Ukrainian Grey

Grey Val d'Adige: see Grey Adige

GREY-WHITE SHORT-HORNED (N.W. and Central India); tr.(d.); z.; inc. Bachaur, Bhagnari, Gaolao, Hariana, Hissar, Krishna Valley, Mewati, Nagori, Ongole, Rath

Groningen (N. Netherlands); d.m.; Shorthorn blood; Du. *Gronings Blaarkop, Zwartblaar,* or *Zwartwitkop* (= *black with white head*) — *11*:216, *13*:1, *16*:94

Grosseto: var. of Maremma; It. *Grossetana* — *2*:310-11

Guademar (Brazil); orig. from Crioulo with zebu blood

Guarapuéva: see Igarapé

Gudali: see Sokoto or Adamawa; not *Godali, Gudale*

Gudbrandsdal (Norway): var. of Døle; dark brown

Guelma (E. Algeria and Tunisia); Brown Atlas type; grey; vars: Chaouia, Cheurfa, Guelma (*s.s.*), Kabyle, and Tunisian — *8*:1-2

Guernsey (Channel Islands); d.; brown-and-white; ? French orig. — *9*:283, *10*:278, *11*:88, *18*:377

Gujamavu: var. of Hallikar; not *Gajamavu, Gujjamavu, Gujmavu*

Gujarati: see Kankrej; not *Gujrati, Guserá, Guzerat, Guzerath*

Gujarati (Ceylon): see Gir

Gumsur: see Goomsur

Guserá, Guzerat, Guzerath: see Gujarati

Gyr: see Gir

[Hagalvadi]: former var. of Amrit Mahal now merged in Hallikar — *15*:97-8

Halabi: see Damascus

Halep: see Aleppo

Hallikar (Mysore, India); tr.; z.; Mysore type; dark grey; orig. of Amrit Mahal; var: Gujamavu; not *Halikar* — *13*:14, *15*:97-8

[Hamitic Longhorn] (Ancient Egypt); orig. from African urus (*Bos primigenius* var *hahni*); syn. *Ancient Egyptian, Egyptian Longhorn*; orig. of South Spanish breeds (?), West African Longhorn, and (with zebu) of Sanga — *9*:306

Hana: see Moravian Red Spotted

Hanagamba: see Red Bororo

Hánam: var. of Khillari; syn. Atpadi Mahal. [= south]

Hanna-Berne: see Moravian Red Spotted

Hansi, Hansi-Hissar: see Hissar

Hariana (E. Punjab, India); tr.d.; z.; grey-white short-horned type; orig. (with Kankrej *et al.*) of Hissar — *6*:367-8, *10*:89, *13*:14

Harz (Germany); German Red type; Ger. *Harzer* — *3*:255, *18*:376

[Heilbronn] (Württemberg, Germany); orig. from Bernese × German Red; part orig. of Scheinfeld and Yellow Franconian; syn. *Neckar* — *13*:15

Hereford (England); m.; red with white head and underside; var: Polled Hereford (U.S.A.); syn. *Pampa* (Uruguay) — *2*:102, *5*:13-14, *6*:14, *14*:73-4

Hereford pattern: see white-face

Hereland (Gt. Britain): Hereford × Highland, 1st cross

Hérens (Valais, Switzerland); d.m.tr.; dark red-brown; Ger. *Eringer*; syn. *Valais* — *2*:309,406, *5*:265, *8*:351-2, *10*:214-5

Herero: see Damara

[Herrgård] (Sweden); local; absorbed into Red Pied Swedish *8*:114
Hervé (Liège, Belgium); d.; orig. from Friesian × native; syn. *Black Pied Hervé* *5*:249, *8*:363-6
HIGHLAND (Germany): inc. Brown Mountain, Middle German Red, Mottled Hill, Spotted Mountain, Yellow Hill; Ger. *Höhenvieh*; syn. *hill, mountain, upland* *18*:370-1
Highland (N.W. Scotland); m.; brown, dun, or black; long horns and hair; syn. *West Highland, Kiloe, Kyloe*
hill (India): see Indian hill
Hinterwald (S. Black Forest, Germany); d.tr.; Mottled Hill type; red or yellow mottled, head and legs white; Ger. *Hinterwälder* *5*:133-4, *6*:286
Hissar (E. Punjab, India); tr.d.; z.; grey-white short-horned type; orig. (1815-98) from Kankrej, Hariana, Gir, Nagore and also Ongole, Tharparkar, and Krishna Valley, selected for type and fast trotting (1899-1912), and backcrossed to Hariana (1912 on) to improve milk yield; syn. *Hansi, Hansi-Hissar, Hissar-Hansi, Hissar-Hariana* *10*:89, *13*:14, *17*:124
Höhenvieh: see Highland
Holando-Argentino (Argentina); d.(m.); var. of Friesian; syn. *Argentine Friesian, Dutch Argentine* *10*:149, *11*:216-7, *16*:305
[Holderness] (England); sim. to Teeswater; Dutch orig.; syn. *Yorkshire*; orig. (+ Teeswater) of Shorthorn
Holland: see Dutch Friesian
Holmogor: see Kholmogor
Holstein (America): see Holstein-Friesian
Holstein (Germany): see Red Pied Holstein
Holstein-Friesian (U.S.A. and Canada); d.; var. of Friesian imported from Netherlands, chiefly 1857-87; syn. *American Friesian, Canadian Friesian, Holstein* *4*:179, *10*:278-9, *12*:183
Holstein Marsh, Holstein Red Pied (Germany): see Red Pied Holstein
Horned Sinú (N. Colombia); m.; var. of Criollo; Sp. *Sinuana de cuernos*; syn. *Costeño con cuernos* or *Cornigero de la costa* (= *coastal horned*); syn. *Andaluz*; orig. of Polled Sinú *12*:116, *14*:10, *16*:303-4
Horosan: see Khurasani
[Hottentot] (S. Africa); syn. *Namaqua*; orig. of Afrikaner *2*:11, *7*:96
Hřbinecké: see Schönhengst
hsaine: see tsine
Huertana: var. of Murcian. [? = country, native] *2*:203
Hungarian Red Spotted; d.m.tr.; orig. (1884 on) from Simmental × Hungarian Steppe; var: Bonyhádi; syn. *Hungarian Red Pied, Hungarian Spotted* *1*:245, *3*:234-5, *8*:1, *10*:154, 215-6, *11*:221
Hungarian Simmental; d.; orig. from Hungarian Red Spotted graded up with Simmental *3*:234-5, *11*:221, *16*:109-10
Hungarian Spotted: see Hungarian Red Spotted
Hungarian Steppe; tr.; Grey Steppe type; syn. *Grey Hungarian, White Hungarian* *1*:245, *3*:19, *10*:215, *18*:259

Ialomiţa (Walachia): var. of Romanian Steppe; orig. from Moldavian × Transylvanian; not *Ialomitza, Jalomita* — *6*:194, *8*:3

IBERIAN (Mediterranean); shades of brown or red; small; short horns; orig. from *B. brachyceros*; inc. Albanian, Brown Atlas, Buša (Yugoslavia), Greek Shorthorn, Libyan, Sicilian

Iceland; d.; usu. pd; Nor. orig. — *7*:2, *12*:171, *13*:122

Igarapé (Brazil); ? Iberian orig.; syn. *Guarapuéva, Manico, Patuá*

IJssel: see Meuse-Rhine-Yssel

Ila: sing. of Baila

Illawarra: see Australian Illawarra Shorthorn

Illyrian; Iberian type, sim. to Greek Shorthorn; used by Adametz to inc. Albanian and Buša (Yugoslavia) — *6*:188, *8*:3-4, 328, *9*:95

Improved Friuli: see Red Pied Friuli

Indian bison: see gaur

INDIAN HILL (Himalayas, Baluchistan, etc.); z.; small; red, black or pied; inc. Kumauni, Las Bela, Lohani, Purnea, Morang, Rojhan, Siri, etc.; *cf.* Sinhala (Ceylon) — *6*:367-8

Indian Zebu: inc. grey-white short-horned type, lyre-horned type, Gir type, hill type, Mysore type, Red Sindhi, Sahiwal, and Dhanni; also inc. desi

Indo-Brazilian (Brazil); m.; z.; orig. from Gir and Kankrej with some Ongole blood; Port. *Indú-Brasil* — *8*:360, *14*:140, *16*:211

Indo-Chinese: zebu orig.; vars. inc. Annamese, Baria, Cambodian, Moi, Thanh-Hoa — *7*:207, *17*:213

Indonesian: see Achin and Sumatran (Sumatra), Javanese, Madurese, Balinese

Inkone: see N'kone

Inkuku: see Kuku

Innviertel (Austria): var. of Spotted Mountain; Ger. *Innviertler*

Inyambo: see Nyambo

Iranian: see Persian

Iraqi; m.tr.; z.; vars: Jenubi, Dishti, Rustaqi — *12*:70, *17*:211

Iringa Red (Tanganyika): local strain of East African Zebu

Irish Dexter (U.S.A.) = Dexter + Kerry

Irish Moiled (Ireland); d.m.; usu. red or roan; syn. *Irish Polled*; not *Maoile, Maol, Maoline, Moile, Moyle.* [= pd]

ISK: see East Finnish

Iskar (Bulgaria); tr.; Grey Steppe type; Bulg. *Iskarska*; syn. *Bulgarian Grey, Bulgarian Steppe, Vit*; orig. of Plevna; not *Isker* — *5*:381, *6*:1

Istoben (Kirov, U.S.S.R.); d.; usu. black or black pied, red or red pied; orig. from Kholmogor (up to 1912) and Swiss Brown (1913 on), × local — *8*:22, *9*:306

Jali, Jalli: see Diali

Jalomita, Jalomitza: see Ialomiţa

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Jamaica Black; m.; pd; in formation from Aberdeen-Angus × zebu — *18*:374-5

Jamaica Jerbu; d.; orig. (1920-52) from Jersey × zebu (chiefly 1 Sahiwal ♂); syn. *Montgomery-Jersey, Jersey-Zebu.* [proposed name only]

Jamaica Red; m.; pd; recent orig. from Red Poll, Devon, and zebu; syn. *Goodhope Red* — *18*:374-5

Japanese; m.tr.; black; Korean, Chinese, and European orig.; Jap. *Wagyu* — *16*:92

Jarama (Madrid, Spain); bull fighting; Sp. *Jarameño*

Jarmelo (Portugal); d.; local var.; Port. *Jarmelista* — *15*:220

Jaroslav, Jaroslavl: see Yaroslavl

Jaulan (S.W. Syria); tr.m.d.; *brachyceros* type; black with white markings, often white head; syn. *Bisre, Khamissi*; not *Dscholan, Gaulan, Golan, Jolan*

Javanese (Indonesia); z.; ? orig. from zebu and banteng — *2*:291, *7*:96

Jeli: see Diali

Jellicut (Madras, India); tr.; z.; syn. *Kilakad, Kilakattu, Kilkad, Pulikulam*; var: Kappiliyan; not *Jellikut.* [= bull baiting]

Jenubi (S.E. Iraq); d.; var. of Iraqi; golden to bright bay; syn. *Fao, Ma'amir, Zubairi*; not *Jenoubi.* [= southern] — *17*:211

Jersey (Channel Islands); d.; fawn, mulberry or grey, often with black skin pigment — *1*:161-2, *9*:283-4, *11*:89, *17*:223

Jersey-Zebu (Jamaica): see Jamaica Jerbu

Jeverland (Oldenburg, Germany); d.m.; var. of Black Pied Lowland; Ger. *Jeverländer* — *1*:89, *2*:10-11,200

Jiddu (S. Somalia); East African Shorthorned Zebu type; It. *Giddu*; syn. *Macien, Serenle, Sorco*; var: Tuni — *3*:377, *14*:209

Jochberg Hummel (Austria): pd var. of Pinzgau; Ger. *Jochberger Hummel.* [hummel = pd]

Jolan: see Jaulan

Jotko (Bornu, Nigeria): var. of Kuri, ? with zebu blood; syn. *Jotkoram* — *14*:53

Junqueiro (Brazil); long-horned; Sp. orig.

Jurin: see Yurin

Jutland: see Black Pied Jutland



Kabuli: see Afghan

Kabyle (Algeria): dwarf var. of Guelma type of Brown Atlas

Kaiama: see Borgu (Nigeria)

Kalakheri: black-and-white var. of Dangi

Kalmyk (U.S.S.R.); m.; Turano-Mongolian type; red, often white on head, belly, and feet; Russ. *Kalmyckiĭ*; syn. *Red Astrakhan*; not *Kalmuck* — *1*:8, *3*:17-8, *4*:163,408, *14*:140-1, *17*:22

Kamasia (W. Kenya); local East African Zebu

Kamba (S.E. Kenya); local East African Zebu; bred in Machakos herd; syn. *Akamba, Ukamba, Wakamba* — *4*:407

Kampeten: see Bergscheck
Kanada: see Dangi
Kanem (Chad, Fr. Equatorial Africa): Kuri × Arab (Shoa) zebu — *17*:125-6
Kanganad: see Kangayam
Kangayam (Madras, India); tr.; z.; Mysore type; white or grey; syn. *Kanganad, Kongu*; var: Tanjore; not *Kangayan, Kangiam, Kangyam* — *12*:70, *13*:14
Kankrej (Gujarat, India); tr.; z.; lyre-horned type; grey; syn. *Bannai, Gujarati* (America), *Nagar, Talabda, Vagadia* or *Wagad, Vadhiyar, Wadhiar* or *Wadial* (Radhanpur); not *Kankerej, Kankreji* — *6*:367-8, *10*:89, *13*:14
Kappiliyan: var. of Jellicut
Karachi, Red: see Red Sindhi
Karamoja (N.E. Uganda); East African Zebu type with much Boran blood; syn. *Karamajong*
Karavaevo: see Kostroma
Kasai (Congo): Hereford × Afrikaner — *7*:213
Kathiawari: see Gir
Kaveri: see Alambadi
Kavirondo (W. Kenya); local East African Zebu — *4*:407
Kazakh: see Kirgiz
Kelantan (Malaya); z.; var. of Siam-Kedah — *7*:389
Kelheim (Upper Palatinate, Germany); tr.m.d.; Mottled Hill type; brown with white markings; Ger. *Kelheimer*; not *Kehlheim* — *7*:104
Kemp (Natal); m.d.; var. of Drakensberger; sim. to Afrikaner but black; orig. from Friesian × Afrikaner, by R. Kemp (1911-47) — *16*:16
Kempen: see Campine
Kenana: var. of Sudanese Shorthorned Zebu; blue-grey — *15*:235
Kenia (Mahaweli Ganga, Ceylon); local var. sim. to Mysore type; grey
Kenkatha: see Kenwariya
Kenwariya (R. Ken, United Provinces, India); tr.; z.; lyre-horned type; rufous, brown or black; syn. *Kenkatha*; not *Kenwaryia* — *10*:152, *13*:14
Kenya Zebu: East African Shorthorned Zebu in Kenya is called Boran, Giriama, Kamasia, Kamba, Kavirondo, Kikuyu, Masai, Nandi, Samburu, Suk, Turkana according to district; only Boran and possibly Nandi are distinct breeds — *4*:407, *5*:393
Kerry (S.W. Éire); d.; black; orig. of Dexter; + Dexter = Irish Dexter (U.S.A.) — *9*:9, *10*:13, *11*:203, *17*:332
Ketaku, Keteku, Kettije: see Borgu (Nigeria)
Khairigarh: see Kherigarh
Khamgaon (Berar, India); z.; local var.
Khamissi: see Jaulan

Khargaon: see Nimari

Kherigarh (United Provinces, India); tr.; z.; lyre-horned type, sim. to Ponwar but grey or white; syn. *Kheri*; not *Khairigarh* — *10*:152, *13*:14

Khillari (Bombay, India); tr.; z.; Mysore type; grey or white; syn. *Mandeshi, Shikari*; vars: Atpadi Mahal or Hanam, Mhaswad, Thillari or Tapti, Nakali; not *Killari, Kilhari, Kilkaree.* [= cattle herdsman] — *10*:89, *13*:14,191

Kholmogor (Archangel, U.S.S.R.); d.; usu. black pied, also red pied, black, or white; local orig. with Friesian blood added from 1765 onwards; not *Cholmogor, Holmogor* — *1*:8, *2*:100, *9*:104, *15*:78-9

Khurasani (N.E. Persia and Turkmenistan); z.; not *Horosan* — *10*:233

Khurdi: see Kurdi

Khurgoni: see Nimari

Kigezi (Uganda): var. of Ankole

Kikuyu (Central Kenya); local East African Zebu

Kilakad, Kilakattu: see Jellicut

Kilara (N. Chad); colour var. of Wadara — *13*:14

Kilhari: see Khillari

Kilis (Turkey); d.; var. of South Anatolian Red; sim. to Damascus — *8*:8-9

Kilkad: see Jellicut

Kilkaree, Killari: see Khillari

Kiloe: see Highland

Kirgiz (Kirgizia and Kazakhstan, U.S.S.R.); m.; Turano-Mongolian type; syn. *Kazakh*; not *Kirghiz* — *1*:8, *12*:10-12

Kistna Valley: see Krishna Valley

Kivu (E. Belgian Congo): var. of Ankole — *4*:287

Kleiti: see Oksh

Köle: see Göle

Kolubara (N.W. Serbia, Yugoslavia); orig. from Steppe × Buša; not *Colubara* — *8*:3-4, *12*:59

Kongu: see Kangayam

Konkani: see Dangi

Korean; m.tr.; brown; Jap. *Chosen* — *16*:92

Kosi: see Mewati

Kostroma (U.S.S.R.); d.m.; grey; orig. (1890-1945) from Swiss Brown and Allgäu × local; syn. *Karavaevo* — *11*:153, *14*:76,77, *15*:80, *16*:16

kou-prey (Indo-China) = *Bos* (*Bibos*) *sauveli* Urbain; syn. *grey Cambodian, kou-proh* — *7*:206-7, *9*:10, *18*:377

Kouri: see Kuri

Krasnodarsk: see Kuban - Black Sea

Kravařsko (Silesia): var. of Czechoslovak Red Spotted; colour-sided; Ger. *Kuhländer* — *2*:112, *4*:277, *11*:91, 222

Krishnagiri (Madras, India); z.; local var.; not *Krisnagiri*

Krishna Valley (S. Hyderabad and S. Bombay, India); tr.d.; z.; grey-white short-horned type; orig. from Ongole *et al.* with Mysore blood; syn. *Kistna Valley* — *10*:89

Kuban - Black Sea (N. Caucasus, U.S.S.R.); m.d. tr.; grey, brown, or yellow; orig. in 19th c. from Swiss Brown and Simmental × Ukrainian Grey; Russ. *Kubano-Černomorskiĭ* syn. *Krasnodarsk* — *18*:260-1

Kuburi: see Kuri

Kuhland: see Kravařsko; Ger. *Kuhländer*

Kuku (Ruanda-Urundi, Belgian Congo): var. of Ankole; not *Inkuku, Kukku* — *8*:327

Kumauni (N. United Provinces, India); z.; hill type; not *Kumaon* — *10*:76, *13*:191, *17*:128

Kuramin (Russian Turkistan); z.; see also Tajik — *10*:233

Kurdi (Kurdistan); m.; *brachyceros* type; black, often with light markings; not *Khurdi* — *12*:70

Kurgan (S.W. Siberia, U.S.S.R.); d.m.; red, brindled or roan; orig. from Shorthorn × (Simmental, Dutch, Bestuzhev, Tagil, Ukrainian Red, or Swiss Brown, × local) — *18*:257-8

Kuri (Lake Chad, West Africa); m.d.; light or white, sometimes with spots; gigantic bulbous horns; Fr. *Kouri*; syn. *Baharié, Buduma, Chad, Dongolé, Kuburi, White Lake Chad*; var: Jotko (Nigeria); also vars. in Bornu and Kanem with zebu blood; not *Koni* — *13*:14, *14*:53, *16*:16, *17*:124, 125

Kyloe: see Highland

Kyoga (Central Uganda); orig. from Ankole × Zebu; see also Nganda — *17*:87

Ladakhi (Kashmir, India); z.; local var.; not *Ladaki*

Lagoon (Ivory Coast, Togo and Dahomey coast): var. of West African Dwarf Shorthorn; Fr. *des Lagunes*

Laguiole: see Aubrac

Lahn (Nassau, Germany); Yellow Hill type; orig. in early 19th c. from Bernese × Vogelsberg and Westerwald — *2*:101

Lake Chad: see Kuri

Lakenvelder: see Dutch Belted

Lakhalbhinda (Berar, India); z.; local var.

Lambadi: see Alambadi

Land Shorthorn (Schleswig, Germany); d.m.; orig. from Shorthorn × Red Pied Lowland — *3*:25, *8*:117

Lango: see Bukedi

Lanka: see Sinhala

Las Bela (Baluchistan, India); z.; hill type; prim. var. of Red Sindhi; not *Lasbella*

Lateral-horned zebu: see Afrikaner

Latvian Black Pied; d.; orig. from Black Pied Lowland; syn. *LM* — *6*:2, *9*:289

Latvian Brown: see Latvian Red

Latvian Brown-and-White: see Latvian Red Pied

Latvian Red; d.; Baltic Red type; orig. from Red Danish and Angeln; syn. *Latvian Brown, LB* — *6*:2, *9*:289

Latvian Red Pied (Livonia); d.; syn. *Latvian Brown-and-White, LR* — *6*:2, *9*:289

Lavanttal: see Carinthian Blond; not *Lavantal*

LB: see Latvian Red

Lebanese (Lebanon and Syria); tr.d.m.; zebu blood, sim. to Damascus, Cyprus and Egyptian; brown; syn. *Beirut, Beyrouth* — *7*:205

Lebaniego: see Liébana

Lebedin (Ukraine, U.S.S.R.); d.m.; orig. (1902-46) from Swiss Brown × local Ukrainian Grey; syn. *Lebedin Schwyz* — *14*:74-5, 211, *15*:13-4, *19*:173

[Lechtal] (Austria-Bavaria); Grey Mountain type; absorbed by Brown Mountain — *2*:16-17

Le Mans: see Maine

Leonese (Spain); d.; North Spanish type — *17*:9

Lesser Caucasus (Lesser Caucasus and lowlands of Transcaucasia, U.S.S.R.); larger, usu. red, var. of Caucasian; Russ. *Malokavkazskiĭ*; syn. *Azerbaijan* — *8*:20, *11*:88,216

Levantine (Spain): see Murcian

Libyan; m.d.tr.; Iberian type, sim. to (or var. of) Brown Atlas — *8*:117, *9*:303, *12*:172, *17*:333

Lidia (Spain): fighting bull (Andalusian, Salamanca, or Jarama). [*lidia* = bull fight] — *17*:9

Liébana: highland var. of Santander; Sp. *Lebaniego* — *18*:373

LIGHT ALPINE (Austria); d.m.tr.; inc. Blond (Carinthian and Styrian), Murboden, Waldviertel; Ger. *Lichtes Alpen-(or Höhen-)vieh*; syn. *Light Mountain, Pale Alpine* — *7*:103

Limousin (C. France); m.tr.; dark yellow-brown; vars: Meymac, Meyssac, Treignac, Vendonnais — *1*:88, 235, *4*:408-9, *7*:214-5

Limpurg (Württemberg, Germany); Yellow Hill type; Ger. *Limpurger*; not *Limburg* — *7*:103

Lincoln Red Shorthorn (England); m.d.; var. of Shorthorn; syn. *Lincoln Red, Lincolnshire Red Shorthorn* — *15*:237

Lincolnshire Beef Poll (England); herd started by E. Pentecost *c.* 1940 from red Aberdeen-Angus × Lincoln Red Shorthorn — *19*:43

[Lišna Red]: var. of Moravian Red

Lithuanian Black Pied; d.; orig. from Black Pied Lowland — *6*:2, *9*:289

Lithuanian Red; d.; sim. to Latvian, Polish, and White-Russian Red; hd or pd — *6*:2, *9*:289

LM: see Latvian Black Pied

Lobi: see Borgu

Logone (S.W. Chad): var. of West African Dwarf Shorthorn; disappearing

Lohani (N.W. Frontier Province and Baluchistan, India); d.tr.; z.; hill type; usu. red with white patches; syn. *Acchai* — *10*:89

Lola: see Sahiwal

Lombardy Brown Pied (Italy); d.; proposed breed from Friesian × Brown Alpine double recessive; It. *Pezzata bruna lombarda* — *16*:210,212

Longhorn (England and Ireland); m.; dark red brindle, colour-sided; syn. *English Longhorn*; rare
Longhorn (U.S.A.): see Texas Longhorn
Lorca (S.W. Murcia, Spain): var. of Murcian; Sp. *Lorquina* — *2*:203
Lower Rhine (Germany); d.m.; Red Pied Lowland type; *cf.* Meuse-Rhine-Yssel; Ger. *Niederrheiner, Niederrheinisches* — *6*:286
LOWLAND (N. Germany): inc. Black Pied Lowland, Red Pied Lowland, Red East Friesian, Angeln; Ger. *Tieflandrind* or *Niederungsvieh* — *1*:161, *7*:103, *18*:374
Lozi: see Barotse
LR: see Latvian Red Pied
LSK: see West Finnish
Lucanian: var. of Apulian
Lugwaret (N.E. Belgian Congo); East African Zebu type; syn. *Bahu* — *6*:95, 285-6
Lyngdal: var. of South & West Norwegian; red; pd — *6*:89, *13*:121-2
LYRE-HORNED (W. and N. India); tr.(d.); z.; inc. Kankrej, Kenwariya, Kherigarh, Malvi, Ponwar, Tharparkar
Lyre-horned (W. Africa): see West African Zebu

Maalselv: see Målselv
Ma'amir: see Jenubi
Maas-Rijn-IJssel: see Meuse-Rhine-Yssel
Macedonian (Yugoslavia): var. of Buša; blue; *cf.* East Macedonian, West Macedonian (Greece)
Machakos: see Kamba
Macien: see Jiddu
Madagascar Zebu; East African Zebu type but lyre-horned; m.tr.d.; syn. *Malagasy, Malgache* — *1*:76, *3*:22-3, *4*:397-8, *18*:259
Madurese (Indonesia); z.; tr.m.; ? orig. from zebu and banteng; Du. *Madoera*; not *Madoura* — *2*:291, *19*:26
Magal (Somalia): East African Zebu type; syn. *Correi* — *5*:2
Maghreb: see Moroccan Brown
Mahadeopuri: see Malvi
Mahadeswarabetta: see Alambadi
[Maine]; Fr. *Mancelle*; syn. *Le Mans*
Maine-Anjou (France); m.d.; orig. from Shorthorn × Maine; sim. to Armorican; red, red-and-white, or roan — *4*:161
Makalanga: see Mashona
Malabar (N.E. Brazil); m.; orig. from Crioulo with zebu blood — *15*:222
Malagasy, Malgache: see Madagascar Zebu
Malai-madu: see Alambadi
Malakan (N.E. Turkey); orig. from Ukrainian Grey; syn. *Okranya*; not *Malokan, Molokan*. [Russ. *moloko* = milk]
Malayan gaur: see seladang
Malinke: see N'Dama

Malir: see Red Sindhi

Målselv: var. of Red Trondheim; often pd; syn. *Maalselv*

Maltese

Malvi (Central India); tr.; z.; lyre-horned type; grey; syn. *Mahadeopuri, Manthani*; not *Malwa, Malwi* — *13*:14

Manapari (Madras, India); z.; Kangayam × local — *13*:13

Mancelle: see Maine

Mandé: see Bambara

Mandeshi: see Khillari

Mandingo: see N'Dama

Mangwato: see Bamangwato; not *Mongconto*

Manhartsberg: see Waldviertel

Manico: see Igarapé

Manthani: see Malvi

Maoile, Maol, Maoline: see Irish Moiled

Marche (Italy); tr.m.; grey; orig. from Chiana × Podolian up to 1928; It. *Marchigiana*; syn. *Improved Marche* (*Marchigiana gentile*) — *2*:309,315, *8*:361, *18*:31

[Marchois]: var. of Limousin — *16*:211

Maremma (S. Tuscany and Latium, Italy); tr.(m.); Podolian type; grey; It. *Maremmana*; vars: Grosseto, Roman; orig. (with Chiana) of Chiana-Maremma — *2*:310-11, *17*:20, *18*:32

Mariahof: see Styrian Blond

Marianas (Oceania); Spanish orig.; syn. *Marianne* — *7*:1

Maroilles: var. of Flemish; Fr. *Maroillaise, Marollaise* — *2*:109-10, *4*:173

Marwari: see Sanchori

Maryuti (N.W. Egypt): var. of Egyptian with less zebu blood; syn. *Arabian*; not *Marriouti*

Masai (Kenya-Tanganyika): local East African Zebu; usu. grey — *12*:183

Mashona (E. of S. Rhodesia); Sanga type; sim. to Setswana; black or fawn; syn. *Makalanga* — *1*:234

Mashukulumbwe: see Baila; not *Mashakalumbe*

Matabele (S.W. of S. Rhodesia); mixed Sanga type, sim. to Mashona but larger; orig. (1840-90) from Barotse + Batawana + Mashona, *et al.* — *3*:15-16

Maure (Mauritania and W. Fr. Sudan); tr.d.; West African Shorthorned Zebu type; red, black, or pied; syn. *Arab, Gabaruyé, Mauritanian, Moor, Moorish* — *17*:127

Maurine: see Meymac

Mauritanian: see Maure; not *Mauretanian*

Mazanderani (N. Persia); mountain var. of Persian

Mbororo: see Red Bororo

Mehwati: see Mewati

Meknes Black Pied (Morocco); d.; orig. from breeds imported in 19th c. (Friesian, Breton or Bordelais) — *8*:1-2, *18*:154

Menufi (S.E. Delta, Egypt); tr.m.; var. of Baladi; not *Menoufi, Minufi*

Méré: see Bambara
Mere-Lobi: see Borgu
Messaoria: larger, lowland, var. of Cyprus
Messara: see Cretan Lowland
Messkirch (Baden, Germany); var. of Spotted Mountain; Ger. *Messkircher*; syn. *Upper Baden Spotted* — *12*:127
Meuse-Rhine-Yssel (E. and S.E. Netherlands); d.m.; Du. *Roodbont* (= *red pied*) *Maas-Rijn-IJssel*; syn. *Yssel, M.R.Y.* — *11*:216, *13*:1, *16*:94
Mewati (W. Rajputana, India); tr.; z.; grey-white short-horned type with Gir blood; syn. *Kosi* (United Provinces); not *Mehwati, Mhewati, Mowati* — *13*:14
Meymac (C. France); orig. from Limousin × Marchois; syn. *Maurine* — *7*:214-5
Meyssac: var. of Limousin — *7*:214-5
Mézenc (Haute Loire-Ardèche, S. France); tr.m.; yellow-brown; local, few
Mezzalino: upland var. of Sicilian
Mhaswad: var. of Khillari; not *Mhasvad*
Mhewati: see Mewati
Middle German Red: see German Red; Ger. *Mitteldeutsches Rotvieh*
Middle-horned (Great Britain): inc. Devon, Hereford, Gloucestershire, South Devon, Sussex, and Welsh Black
Miesbach (Bavaria, Germany): var. of Spotted Mountain; Ger. *Miesbacher*; syn. *Upper Bavarian Spotted* — *2*:18
Milking Shorthorn (U.S.A.); d.m.; var. of Shorthorn developed 1885 on; *cf.* Dairy Shorthorn (Great Britain) — *12*:129
Minho (Portugal); d.m.tr.; sim. to North Spanish; yellow-brown; Port. *Minhota*
Miranda (Portugal); tr.m.; dark; Port. *Mirandesa* — *15*:220
Miskov (Yaroslavl, U.S.S.R.); m.d.
mithan: see gayal; not *mithun*
Mkalama Dun (Tanganyika); local strain of E. African Zebu
Mocaniţa: see Romanian Mountain; not *Mocanitza*
Mocha nacional: see Brazilian Polled
Modena (Emilia, Italy); d.tr.m.; ? orig. from Reggio × Romagna; It. *Modenese*; syn. *Carpi, White Po* (It. *Bianca padana*) — *3*:234, *18*:30
Modica: lowland var. of Sicilian; It. *Modicana* — *3*:234, *8*:350
Modica-Sardinian (S. Sardinia); tr.m.d.; yellow-brown to dark red; orig. from Modica × Sardinian (1860 on); It. *Modicano-Sarda*; syn. *Oristano, Sardo-Modica* — *4*:167, *16*:303, *17*:19,122
Moi: var. of Indo-Chinese; disappearing — *7*:207
Moile, Moiled: see Irish Moiled
Moldavian; tr.d.; chief var. of Romanian Steppe; white to ash-grey; var: Popauţi — *6*:194, *8*:3
Mölltal (Austria-Italy): var. of Pinzgau; orange-red; syn. *Mölltal-Pinzgau*; not *Mölthal, Monthal* — *2*:313

Molokan: see Malakan
Mongconto: see Mangwato
Mongolian (Sinkiang, Mongolia, and Manchuria); d.; Turano-Mongolian type — *5*:130, *7*:97, *17*:22
Montafon (Austria); var. of Brown Mountain; syn. *Vorarlberg Brown*; Ger. *Montafoner*; not *Montavon* — *1*:92-3, *2*:16-17, 314-5, *5*:12-13
Montaña (Spain): see Santander. [= mountain (province)]
Montanaro: mountain var. of Sicilian
Montbéliard (Haute Saône-Doubs, France); d.m.tr.; var. of Eastern Red Pied; orig. from Bernese brought by Mennonites in 17th c.
Montgomery: see Sahiwal
Montgomery-Jersey: see Jamaica Jerbu
mooly, moolley: see mulley
Moor, Moorish: see Maure
Morang (Nepal, India); z.; hill type; sim. to Purnea
Moravian Red (Czechoslovakia); d.m.tr.; Central European Red type; var: [Lišna Red]; syn. *Moravian Carpathian, Moravian Land*; rare — *2*:112, *3*:371-2
Moravian Red Spotted: var. of Czechoslovak Red Spotted; syn. *Berno-Hana, Hanna-Berne, Moravian Red Pied, North Moravian Berne, Spotted Moravian* — *1*:11, *2*:112, *3*:375, *4*:277
Moravian Sudeten: see Sudeten
Morbihan: see Breton Black Pied; Fr. *Morbihannaise*
Moroccan (Morocco and W. Algeria); Brown Atlas type; vars: Oran, Moroccan Blond, Moroccan Brown; local vars. Doukkala, Gharb, Meknes, Oulmès — *18*:260
Moroccan Blond: pale var. of Moroccan type of Brown Atlas; syn. *Blond Zaers* — *3*:248, *6*:278, *8*:1-2
Moroccan Brown: dark var. of Moroccan type of Brown Atlas; syn. *Maghreb* — *3*:248
Morucho: see Salamanca. [young bull with horns tipped]
Moruno-Sinuana: see Polled Sinú
[Morvan] (Burgundy, France); replaced by Charollais; Fr. *Morvandelle* — *7*:203
MOTTLED HILL (Germany); tr.m.d.; inc. Small Spotted (Hinterwald and Vorderwald), White-marked (Kelheim and Westerwald), White-backed (Glatz, Pinzgau, Sudeten), and Bergscheck; Ger. *Schecken und Blässen, Scheckiges und rückenblessiges Höhenvieh*
Mountain Grey: see Grey Mountain
Mountain Spotted: see Bergscheck, Spotted Mountain
Mowati: see Mewati
Moyle: see Irish Moiled
Mozambique: see East African Shorthorned Zebu (Tete in N.W.), or Zulu (Save in S.) — *18*:155
M.R.Y.: see Meuse-Rhine-Yssel
Mucca: see Pisa

mulley (U.S.A.) = polled; ? orig. from Polled Derby; orig. of single standard Polled Shorthorn; not *mooly, moolley, muley*

Multani: see Sahiwal

Murboden (Styria, Austria); d.m.tr.; Light Alpine type; yellow-brown; orig. from Bergscheck × Mürztal (in 19th c.), + Mürztal (1913); Ger. *Murbodner*; syn. *Murboden-Mürztal* — *1*:92-3, *2*:16-17, 314-5, *3*:254, *7*:103, *8*:351

Murcian (E. Spain); m.tr.; dark red; syn. *Levantine* (= *eastern*); vars: Huertana (= Murcian *s.s.*), Lorca, and Serrana (= mountain) from Muertana × Lorca — *2*:203, *17*:9,10-11

Murge: var. of Apulian; It. *Murgese* — *8*:23

Murnau-Werdenfels (Bavaria); d.m.tr.; var. of German Brown

Mursi (S. Albania); tr.; Grey Steppe type; grey with black points — *9*:95, *16*:209

[Mürztal] (Austria): combined with Murboden — *3*:254

Muturu: see Nigerian Shorthorn. [Hausa; = humpless]

MYSORE (S. India); z.; rapid draft; usu. grey; vertical horns; basic breed is Hallikar; also inc. Alambadi, Amrit Mahal, Bargur, Kangayam, and Khillari — *6*:367-8

Nacional (Brazil); rejects from Caracú and Brazilian Polled herds — *11*:217

Nagar: see Kankrej

Nagori (Jodhpur, India); tr.; z.; grey-white short-horned type; not *Nagaur, Nagoni, Nagore*

Nakali: var. of Khillari; not *Nakli*. [= imitation]

Nama, Namaqua: see Hottentot

Namwala (N. Rhodesia); Sanga type; orig. from Baila × Barotse — *2*:398

Nandi (W. Kenya); local E. African Zebu, bred in Baraton herd — *4*:407

Nantes: var. of Parthenay; Fr. *Nantaise*

Nata: see Niata

N'Dama (Fouta Djallon, Fr. Guinea); m.tr.; West African Small Humpless type; usu. fawn, also light red or dun; larger (plains) var. with longer lyre-shaped horns, and smaller (hill) var. with shorter lyre or crescent horns; syn. *Fouta Jallon, Fouta Malinke, Fouta Longhorn, Futa, Mandingo* (Liberia), *Malinke*; vars. in Gambia, Senegal, Sierra Leone; not *Dama, Ndama* — *7*:106, 213, *16*:4

Ndawana: see Batawana

Neckar: see Heilbronn

Nellore: see Ongole

Nelthrop (Antigua, West Indies); in formation from Red Poll × Senegal N'Dama

Nepali: see Morang

Netherlands Black Pied: see Dutch Friesian; Du. *Nederlands . Zwartbont*

Netherlands Indies: see Indonesian

N'gami, Ngami: see Batawana

Nganda (Buganda, Uganda): orig. from Ankole × Zebu, *cf.* Kyoga; inc. Sese Island — *17*:87

Ngaundere: var. of Adamawa

Ngong: see Boran

Ngoni: see Angoni

Nguni (S. Africa); intended name for Zulu-Swazi when improved by selection — *17*:224

Niata (Uruguay); var. with bulldog snout; not *Nata*

Niederrheiner, Niederrheinisch: see Lower Rhine

Niederungsvieh: see Lowland

Nigerian Shorthorn: var. of West African Dwarf Shorthorn; syn. *Nigerian Dwarf, Muturu, Pagan* — *6*:82-3 *13*:14

Nilotic: see Sudanese Longhorn

Nimari (Indore, Central India); tr.; z.; usu. red with white markings; ? orig. from Gir and Khillari; syn. *Khargaon, Khurgoni* (Central Provinces) — *13*:14

Nizhegorod: see Yaroslavl

Nkedi: see Bukedi

N'kone: colour-sided var. of Zulu; not *Inkone*

Nordland: see Blacksided Trondheim & Nordland

[Norfolk Horned] (England); syn. *Red Norfolk*; orig. (× Suffolk Polled) of Red Poll

Norfolk Polled: see Red Poll

Noric: see Pinzgau

Normandy (France); d.m.; red-brown and white, often brindled, usu. red spectacles; some Shorthorn blood; Fr. *Normande*; syn. *Norman* — *12*:55

North Devon: see Devon

Northern Dairy Shorthorn (N. England); d.m.; var. of Shorthorn which started herdbook in 1945 — *18*:262

NORTH EUROPEAN POLLED: inc. Aberdeen-Angus, British White Polled, Galloway, and Red Poll (Great Britain); Irish Moiled; Blacksided Trondheim & Nordland, Red Polled Østland, and Vestland Polled (Norway); Swedish Polled; Finnish; Estonian Native; Iceland

North Finnish (N. Finland); d.; white var. of Finnish; sim. to Swedish Mountain and to Blacksided Trondheim & Nordland (Norway); Finn. *Pohjois-Suomalainen Karja* (= *PSK*) — *3*:3-4, *6*:89, *10*:93, *12*:58

North Italian Brown: see Brown Alpine

North Moravian Berne: see Moravian Red Spotted

[North Slesvig Red] (Germany-Denmark); sim. to Angeln but with Shorthorn blood; absorbed in Red Danish; Dan. *Nord Slesvig Rød*, Ger. *Rotes Nordschleswiger*

NORTH SPANISH; tr.m.d.; brown to red; inc. Asturian, Galician, Leonese, Pyrenean, Santander — *17*:9

North Swedish: see Swedish Polled

[North Wales Black]; syn. *Anglesey*; orig. (+ South Wales Black) of Welsh Black

Norwegian Red-and-White; d.; orig. from Swedish Red-and-White, Ayrshire, and Red Trondheim, × local Hedmark cattle; Nor. *Norsk rødt og hvitt fe*; syn. *NRF* — *17*:20-21, *18*:256

Norwegian Red Polled: see Red Polled Østland

NRF: see Norwegian Red-and-White

Nsagalla: see Ankole

Nuba Mountain (A.-E. Sudan); dwarf Shorthorn type

Nyambo (Ruanda-Urundi, Belgian Congo): var. of Ankole; not *Inyambo, Nyembo* — *8*:327

Nyasaland Zebu; E. African Shorthorned Zebu type

Oberbaden: see Upper Baden

Oberinntal (Austria); d.m.tr.; Grey Mountain type — *2*:16-17, *10*:90

Ocampo (Venezuela); in formation from Ongole × [Friesian × (Ongole × local)]

Odenwald (Hesse, Germany); German Red type; Ger. *Odenwälder* — *9*:306, *15*:99

Oka: see Gorbatov Red; Russ. *Priokskiĭ*

Okranya: see Molokan

Oksh (Syria and Palestine); tr.; *brachyceros* type; small; brown to black, or pied; syn. *Arab, Anatolian* (Hama), *Bedouin, Chaissi, Kleiti* (Homs) — *7*:205

Oldenburg: see Wesermarsch

Old Gloucestershire: see Gloucestershire

Omby rana: see Rana

Ongole (Madras, India); d.tr.; z.; grey-white short-horned type; syn. *Nellore* — *4*:18, *6*:367-8, *10*:89, *13*:14

Oran (Algeria): var. of Moroccan type of Brown Atlas

Oristano: see Modica-Sardinian; It. *Oristanese*

[Orkney] (Scotland): var. of Shetland

Oropa: ? var. of Aosta; usu. red pied, sometimes black pied — *17*:125

[Ossolana] (N.E. Piedmont, Italy); local var. absorbed by Brown Alpine — *3*:234, *18*:27-8

Østerdal (Norway): var. of Døle; black

Østland: see Red Polled Østland

Oulmès (Morocco): local var. of Moroccan — *8*:1-2

Ovambo: see Ambo

Ozieri: see Brown Sardinian; It. *Ozierese* — *17*:125

Padana: see *Po*

Pagan: see West African Dwarf Shorthorn (esp. Nigerian var.)

Pahari, Pakhari: see Dhanni

Pale Highland: see Light Alpine
Pampa: see Hereford
Pantaneiro (S. Goyaz and S. Mato Grosso, Brazil): var. of Curraleiro. [*pantaneiro* = living in marshes]
Panwar: see Ponwar
Paphos: smaller, hill, var. of Cyprus
Park: see British White
Parthenay (W. France); d.tr.m.; fawn; Fr. *Parthenaise*; syn. *Choletais, Vendée, Vendée-Parthenay*; vars: Nantes, Vendée Marsh — *4*:164, 413
[Pas]: upland var. of Santander; Sp. *Pasiego* — *12*:67
Pasturina (Casentino, Arezzo, Tuscany, Italy); local var. from Chiana × Podolian
Patuá: see Igarapé
Pedreiro (Brazil); long-horned; Sp. orig.
Peloponnesus: var. of Greek Shorthorn — *3*:24
Pembroke: see South Wales Black
Persian; *brachyceros* type with zebu blood in east; syn. *Iranian*; vars: Seistani (E.), Ardebili (Azerbaijan), Mazanderani and Gilan (N.), Khurasani (N.E.)
Perugia (Umbria, Italy): var. of Chiana; It. *Perugina* — *19*:172
Peuhl, Peul, Peulh, Peulhe, Peul-Peul: see Fulani
Philamin (Philippines); m.tr.; orig. ½ Hereford ⅜ Ongole ⅛ Philippine Native — *4*:153, *8*:116
Philippine Native; orig. from Chinese and Mexican — *4*:153
Picardy: var. (by crossing) of Flemish; Fr. *Picarde* — *7*:104
Piedmont (Italy); m.tr.d.; *brachyceros* type; white or pale grey with black points; It. *Piemontese*; vars: Alba, [Demonte] — *3*:234, *4*:18-19, *8*:361-2, *18*:27-8
Piedrahita: var. of Avila; Sp. *Piedrahitense*
pien niu: see zo; not *pian niu*
Pinzgau (Austria-Bavaria); d.m.tr.; Mottled Hill type; red-brown, colour-sided with coloured head; Ger. *Pinzgauer*; syn. *Noric* (Italy); pd var: Jochberg Hummel; It. vars: Mölltal, Pusteria — *2*:16-17, *7*:301, *8*:124, *10*:89,152, *13*:133
Pisa (Tuscany, Italy); m.tr.d.; It. *Mucca nera pisana* (= *black Pisa milch cow*) — *5*:391
Plevna (N.W. Turkey); m.d.tr.; Grey Steppe type; orig. from Iskar (Bulgaria); Turk. *Boz Step* (= *grey steppe*) or *Plevne*; not *Pleven* — *8*:7-8, *9*:106, *13*:134
Po: see Modena; It. *Bianca padana*
PODOLIAN (Italy); tr.m.; Grey Steppe type; inc. Apulian, Marche, Maremma, Romagna; orig. of Chiana — *15*:167
Podolian (S.E. Europe); see Grey Steppe; Slav, *Podolska*
Podolian Black Pied (Ukraine); d.; orig. from East Friesian × local — *14*:210, *15*:14
Polesian (Pripet Marshes, U.S.S.R.); syn. *Polish Grey* — *5*:249, *12*:172
Polish Black Pied; d.m.; orig. from East Friesian and East Prussian; syn. *Polish Lowland* — *5*:249, *10*:139, *16*:110-1

Polish Grey: see Polesian

Polish Marsh; d.; all white var. of Polish Whitebacked; Pol. *Żuławki, Żuławek* — *5*:240

Polish Red; d.m.; Pol. *Czerwony polski*; syn. *Polish Red-Brown* — *1*:91,241, *8*:23

Polish Simmental; d.m.tr. — *6*:187

Polish Whitebacked (C. Poland); d.; black or brown, colour-sided; Pol. *Białogrzbiety*, Ger. *Rückenscheckig*; var. with colour reduced to a few spots on side, called Polish Marsh; *cf.* Ukrainian Whitebacked — *5*:249

polled: see also North European polled

Polled Aberdeenshire: see Buchan Humlie

Polled Angus: see Aberdeen-Angus

[Polled Derby] (England); ? orig. of mulley

Polled Durham: see Polled Shorthorn

Polled Hereford (U.S.A. and Canada): var. of Hereford; (1) Single Standard, orig. *c.* 1893 by grading up Aberdeen-Angus and Red Poll, (2) Double Standard, orig. in 1901 by mutation; syn. *Poll Hereford* (Australia) — *3*:256, *7*:17

Polled Irish: see Irish Moiled

Polled Jersey (U.S.A.): var. of Jersey

Polled Norfolk: see Red Poll

Polled Scots: see Aberdeen-Angus, Galloway

Polled Shorthorn (Ohio, U.S.A.): var. of Shorthorn; (1) [Single Standard], orig. *c.* 1870 by grading up mulley cows, (2) Double Standard (purebred), orig. by mutation in 1880's; syn. *Polled Durham, Poll Shorthorn* (Australia) — *3*:256

Polled Sinú (N. Colombia); m.; reddish brown; ? orig. (end of 19th c.) from Red Poll and/or Aberdeen-Angus × Horned Sinú; Sp. *Romo-Sinuana*; syn. *Moruno-Sinuano, Coastal Polled* — *10*:218, *12*:116, *13*:17, *14*:10, *16*:303-4

Polled Suffolk: see Suffolk Polled

Pontremoli (Liguria-Tuscany, Italy); tr.m.d.; yellowish red; It. *Pontremolese*; syn. *Bettola*; Tortona and Bardi are sim. — *4*:19, *11*:77

Ponwar (N. United Provinces, India); tr.; z.; lyre-horned type, sim. to Kherigarh but black-and-white; not *Panwar* — *10*:16,152, *13*:14

Popauți (Romania); d.; var. of Moldavian bred for milk at Popauți station; not *Popautzi* — *8*:3

Posavina: dwarf var. of Yugoslavian Steppe: syn. *Sava* — *8*:3-4

Pothwari: see Dhanni

Poulo, Poul-Poulo, Poul-Foulo: see Fulani

Preti (N. Italy); d.; Friesian × Brown Alpine, 1st cross; *cf.* Frati. [*prete* = priest, *i.e.* black] — *3*:234, *17*:337

Priokskiĭ: see Oka

Pritashkent: see Tashkent

PSK: see North Finnish

Puerto Rican (West Indies); Sp. orig.; some dwarf — *17*:343

Puglia: see Apulian
Pulikulam: see Jellicut
Pullo: see Fulani
Pul-Mbor (Fr. Cameroons): Red Bororo × Adamawa, 1st cross. [*i.e. Mbor*oro × *Peul*] *18*:29-30
[Punganur] (Madras, India): Mysore type
Purnea (N. Bihar, India); tr.; z.; hill type, sim. to Morang; black or red
Pusteria (N.E. Italy): var. of Pinzgau; red- or black-pied sides; Ger. *Pustertal*
pyaung, pyun: see Burmese gaur
Pyrenean (France); see Blond Pyrenean, Central Pyrenean
Pyrenean (Vascongadas, Spain); North Spanish type; Sp. *Pirenaica*; syn. *Basque*; *cf.* Blond Pyrenean (France) *2*:189, *12*:70, *17*:9, *10*-11, *18*:375-6

Quebec Jersey: see Canadian
Quercy (Tarn-et-Garonne, France); m.tr.; yellow-brown

Rahaji, Rahaza: see Red Bororo
Rana (Madagascar); d.m.; orig. from Bordeaux and Garonne (imported 1840) × Madagascar Zebu; syn. *Omby rana*
Rath (Alwar, India); tr.; z.; grey-white short-horned type *13*:14
RDM: see Red Danish
Red: see Baltic Red, Central European Red
Red (Germany): see German Red; Ger. *Rotvieh*
Red Aberdeen-Angus: var. of Aberdeen-Angus; a few herds in England and Argentina
Red Afrikaner: see Afrikaner
Red-and-White Finnish: see East Finnish
Red-and-White Meuse-Rhine-Yssel: see Meuse-Rhine-Yssel
Red Angeln: see Angeln
Red Astrakhan: see Kalmyk
Red Bavarian: see Bavarian Red
Red Bessarabian: see Bessarabian Red
Red Bororo (E. Niger Colony, N. Nigeria, W. Chad, and N. Cameroons); m.; West African Long Lyrehorned Zebu type; mahogany; pl. *Bororodji*; syn. *Abori, Brahaza, Djafoun* (Fr. Cameroons), *Fogha, Gabassaé, Gadéhé, Hanagamba, Mbororo, Rahaji, Rahaza, Red Fulani, Red Longhorn*; not *Boro, Borroro* *13*:14, *17*:126, *18*:29
Red Colonist, Red Crimean: see Ukrainian Red
Red Croatian (Yugoslavia): var. of Buša *8*:353
Red Danish (Denmark - islands); d.; Baltic Red type; orig. from North Slesvig Red (+ Angeln and Ballum) × local island (1841-63); Dan. *Rødt Dansk Malkekvæg* (= *RDM*); syn. *Fünen, Red Dane* *7*:9, 105, *10*:22, *12*:68-9
Red East Friesian (Germany); d.m.; var. of East Friesian; syn. *Red-Brown East Friesian*; rare *2*:103

Red Finnish: see West Finnish
Red Flemish: see Red West Flemish
Red Fulani: see Red Bororo
Red German (U.S.S.R.): see Ukrainian Red
Red Gorbatov: see Gorbatov Red
Red Hill: see German Red; Ger. *Rotes Höhenvieh*
Red Karachi: see Red Sindhi
Red Longhorn: see Red Bororo
Red Mountain: see German Red; Ger. *Rotes Höhenvieh*
Red Norfolk: see Norfolk Horned
Red North Slesvig: see North Slesvig Red
Red Pied Aosta: var. of Aosta; It. *Valdostana pezzata rossa* — *8*:21, *14*:72
Red Pied Campine: see Campine
Red Pied East Friesian (Germany); d.m.; Red Pied Lowland type; var. of East Friesian; Ger. *Rotbuntes Ostfriesen*: syn. *Red-White East Friesian* — *2*:104, *5*:131
Red Pied Flemish: see East Flemish Red Pied
Red Pied Friuli (Venetia, Italy); d.m.tr.; orig. from Simmental × Friuli (1880-1900); It. *Pezzata rossa friulana*, Ger. *Friauler*; syn. *Improved Friuli, Friuli-Simmental, Simmenthal-Friulana* — *2*:313, *3*:234, 365, *19*:42-3
Red Pied Holstein (Germany); d.m.; Red Pied Lowland type; Shorthorn blood; Ger. *Rotbuntes Holsteiner*; vars: Breitenburg, Wilstermarsch; syn. *Holstein Marsh, Holstein Red Pied, Red Pied Schleswig-Holstein* — *5*:264, *8*:227-8
Red Pied Karelian: see East Finnish
Red Pied Lowland (N.W. Germany); d.m.; inc. Lower Rhine, Red Pied East Friesian, Red Pied Holstein, Red Pied Westphalian, and also Meuse-Rhine-Yssel (Netherlands); Ger. *Rotbuntes Niederungsvieh*; syn. *German Red Pied, Red-White Lowland* — *2*:201, 306, *5*:264, *6*:285, *8*:117, 352, *10*:90
Red Pied Schleswig-Holstein: see Red Pied Holstein
Red Pied Swedish; d.; orig. in late 19th c. from Ayrshire and Shorthorn × local (Herrgård and Småland); Swed. *Rödbrokig Svensk Boskap* (= *RSB*); joined with Swedish Ayrshire to form Swedish Red-and-White (1928) — *8*:114, *11*:161, *13*:13-14
Red Pied Valdostano: see Red Pied Aosta
Red Pied Westphalian (Germany); d.m.; Red Pied Lowland type; orig. from Lower Rhine and Meuse-Rhine-Yssel; Ger. *Rotbuntes Westfälisches* — *10*:147
Red Polish: see Polish Red
Red Poll (England); d.m.; orig. in early 19th c. from Suffolk Polled and Norfolk Horned; syn. *Norfolk Polled, Norfolk and Suffolk Red Polled*; not *Red Polled* — *3*:247, 366, *12*:183-4, *14*:12
Red Polled (Norway): see Red Polled Østland
Red Polled (Sweden): see Swedish Red Polled
Red Polled Østland (S.E. Norway); d.; sim. to Swedish Red Polled; Nor. *Raukolle, Rødkolle, Rautt* (or *Rødt*) — *2*:90, 186, *6*:89, *15*:12

kollet Østlandsfe; syn. *Norwegian Red Polled, Østland, Red Polled*; not *Red Poll*

Red Ruby: see Devon

Red Senegal: see Senegal N'Dama (small type)

Red Silesian: see Silesian Red

Red Sindhi (Sind, India); d.; z.; syn. *Malir* (Baluchistan), *Red Karachi*; var: Las Bela (Baluchistan); not *Scindhi, Scindi, Sindi* — *10*:89, *11*:152, *13*:14

Red Speckled, Red Spotted: see Simmental, Spotted Mountain

Red Spotted (France): see Eastern Spotted

Red Spotted Moravian: see Moravian Red Spotted

Red Steppe, Red Steppe Ukrainian: see Ukrainian Red

Red Tambov: see Tambov Red

Red Trondheim (Norway); d.m.; orig. (1850-91) from Ayrshire × local; Nor. *Rødt* (or *Rautt*) *trønderfe og målselvfe*; var: Målselv; not *Drontheimer, Trondhjem* — *2*:90, 186, *6*:89, *13*:121-2, *18*:376-7

Red Ukrainian: see Ukrainian Red

Red West Flemish (W. Flanders, Belgium); d.m.; sim. to Flemish (France); Fr. *Race rouge de la Flandre occidentale*; syn. *Red Flemish, West Flemish* — *5*:249, *8*:363-4, *16*:111

Red-White: see Red Pied; Ger. *Rotweiss*

Reggio (Emilia, Italy); d.tr.m.; red; It. *Reggiana* — *3*:234, 365

Rendena (Venetia, Italy); d.; var. of Brown Alpine — *3*:253-4, *8*:351

Restagi: see Rustaqi

Rhodope (Bulgaria); *brachyceros* type; brown-black with white eel-stripe; dwarf; Bulg. *Rodopit*; *cf.* West Macedonian

Ribatejo (Portugal); tr.m.; Port. *Ribatejana* — *15*:220

Rigi: see Swiss Brown

Ristagi: see Rustaqi

Rødt Dansk Malkekvæg: see Red Danish

Rødkolle, Rødt kollet Østlandsfe: see Red Polled Østland

Röd Kullig Lantras: see Swedish Red Polled

Rodopit: see Rhodope

Rojhan (Punjab, India); z.; hill type; usu. red with white markings — *10*:151

Romagna (E. Emilia, Italy); tr.m.; Podolian type; grey to white; It. *Romagnola*; vars: Improved (It. *gentile*) and Mountain (It. *di montagna*) — *1*:241-2, *5*:391, *7*:106, 107, *18*:31

Roman: var. of Maremma — *2*:310-11

Romanian Mountain; d.; *brachyceros* type; reddish yellow or grey; syn. *Mocanița* — *6*:194, *8*:3

Romanian Steppe; tr.m.; Grey Steppe type; vars: Moldavian, Bucşan, Ialomița, Transylvanian

Romo-Sinuana: see Polled Sinú

Røros: see Blacksided Trondheim & Nordland

Rotbunt: see Red Pied

[Rottal] (Bavaria); absorbed by Spotted Mountain — *10*:216

Rowzi: see Barotse

RSB: see Red Pied Swedish
Ruanda-Urundi: see Ankole, Kuku, Nyambo
Rückenscheck, Rückenblessen: see White-backed
Runcu (Romania): see Swiss Brown — *8*:3
Ruşeţu (Romania): see Simmental; not *Rusetzu* — *8*:3
Rustaqi (Hilla, Iraq): var. of Iraqi; light tan; not *Restagi, Ristagi*. [= improved Jenubi cattle coming originally from government farm at Rustam, nr. Baghdad] — *17*:211

Sachor: see Sanchori
Sahabadi: see Shahabadi
Sahiwal (W. Punjab, India); d.; z.; usu. reddish dun with white markings; syn. *Lambi Bar, Lola, Montgomery, Multani* (Bihar), *Teli*; not *Sanewal, Saniwal* — *6*:367-8, *10*:89, *13*:14
Saidi (Upper Egypt); tr.m.; var. of Egyptian with more zebu blood; not *Saiidi*. [= valley, *i.e.* of Nile] — *12*:113-4
Saint Girons et Aure: see Central Pyrenean
saladang: see seladang
Salamanca (Spain); m.tr. bull fighting; Sp. *Salamanquina, Salmantina*; syn. *Morucho* — *17*:9, 10-11
Salem: see Alambadi
Salers (Auvergne, France); d.tr.m.; mahogany — *2*:196, *3*:20, *19*:41
Samburu (Central Kenya); local E. African Zebu
Sanchori (Jodhpur, India); tr.d.; z.; sim. to Nagori; syn. *Marwari*; not *Sachor, Sanchore*
Sanewal, Saniwal: see Sahiwal
SANGA (E. and S. Africa); tr.; long horns, small cervico-thoracic muscular hump or none; inc. Ambo, Ankole, Baila, Bolowana, Mashona, Matabele, Setswana, Zulu; ? orig. from Lateral-horned Zebu and Hamitic Longhorn; syn. *Bantu*
"*Sanga*" (Gold Coast); Gold Coast Shorthorn × zebu; syn. *pseudo-Sanga* — *9*:280
San Martin (C. Colombia); m.; var. of Criollo sim. to Horned Sinú but better conformation; Sp. *Sanmartiniana*
Santa Gertrudis (Texas, U.S.A.); m.; red; orig. 1910-40, ⅜ Shorthorn ⅝ Brahman. [division of King Ranch] — *7*:111, *8*:116, *12*:12, *17*:333
Santander (Spain); m.d.tr.; North Spanish type; vars: Campóo (valley), [Pas], Liébana and Tudanca (mountain) syn. *Montaña* — *12*:67, *18*:373
Sardinian; prim.; yellow-brown; It. *Sarda*; orig. (with Brown Alpine) of Brown Sardinian and (with Modica) of Modica-Sardinian; *cf.* Corsican — *3*:373-4, *4*:167, 289, *8*:347
Sardo-Modica: see Modica-Sardinian
Sardo-Schwyz, Sardo-Swiss: see Brown Sardinian
Sava: see Posavina
Sayaguesa: see Zamora
[Scheinfeld] (Germany): orig. from Heilbronn × native — *13*:15

Franconian red (mid 19th c.); absorbed by Yellow Franconian

Schiltern: see Waldviertel

Schlesisch: see Silesian

Schönhengst (Moravia): var. of Czechoslovak Red Spotted; Hereford pattern; Czech, *Šenhengské*; syn. *Hřbinecké* — *2*:112, *3*:375, *4*:277

Schwarzbunt: see Black Pied

Schwyz: see Swiss Brown; not *Schwitz, Schwiz*

Scindi, Scindhi: see Red Sindhi

Scotch Polled: see Aberdeen-Angus, Galloway

Scotch, or *Scottish, Shorthorn*: see Beef Shorthorn

Scutari: see Shkodra

SDM: see Black Pied Danish

Sechsämter (Upper Franconia); German Red type — *7*:104

Sechuana: see Setswana

Seferihisar (W. Turkey); d.; local var.; red; ? orig. from Simmental × Aleppo (*i.e.* Damascus)

Seistani (E. Pèrsia); z.; var. of Persian; not *Sistan*

Seladang (Malaya) = *Bos* (*Bibos*) *gaurus hubbacki*; var. of gaur; not *saladang, sladang* — *7*:9

Senegal Fulani; m.tr.; West African Lyrehorned Zebu type; white, red pied, or yellow-brown; Fr. *Zébu peul Sénégalais*; syn. *Gobra, Senegal Zebu*; orig. (with N'Dama) of Djakoré — *17*:127

Senegal N'Dama (Fr. W. Africa): var. of N'Dama; large type — shades of red or black, or pied; small type (syn. *Red Senegal*) usu. red; orig. (× Red Poll) of Nelthrop (Antigua) — *17*:225

Šenhengské: see Schönhengst; not *Sěnhengs*

Serenle: see Jiddu; syn. *Serengi*

Serrana: see Spanish Mountain

Sertanejo (Brazil). [= inland]

Sese or Sesse Island (Uganda): see Nganda

Setswana (Bechuanaland and surroundings); Sanga type; syn. *Amabowe* (S. Rhodesia), *Bamangwato* or *Mangwato* (C. Bechuanaland), *Bechuana*; vars: Barotse (N. Rhodesia), Batawana (N.W. Bechuanaland), Damara (S.W. Africa and Bechuanaland); *cf.* also Mashona and Matabele — *3*:15-16

Shahabadi (Bihar, India); tr.d.; z.; grey; not *Sahabadi* — *9*:91

Shami: see Damascus

Sheeted Galloway: see Belted Galloway

[Sheeted Somerset] (England); hd or pd; syn. *Somerset, White-sheeted Somerset*

Shendi; d.tr.; var. of Sudanese Shorthorned Zebu; red; ? orig. from Butana — *15*:235

Shetland (Scotland); d.m.; syn. *Zetland*; var: [Orkney]; purebreds rare — *13*:65-6, *18*:15

Shikari: see Khillari

Shkodra Red: var. of Albanian; It. *Scutari* — *16*:209

Shorthorn (N.E. England); m.(d.); usu. red, roan, or white, sometimes red-and-white or roan-and-white; orig. from Holderness + Teeswater in late 18th c.; syn. *Durham, Improved Shorthorn, Improved Teeswater*; orig. of Australian Illawarra Shorthorn, Land Shorthorn (Germany), etc.; vars: Beef Shorthorn, Dairy Shorthorn, Milking Shorthorn (U.S.A.), Lincoln Red Shorthorn, Northern Dairy Shorthorn, Polled Shorthorn — *3*:141, *5*:275, *10*:278-9, *15*:247

Shuwa (Chad and N.E. Nigeria); m.d.; West African Shorthorned Zebu type, sim. to Azaouak; usu. dark red; Fr. *Choa*; syn. *Arab* (Chad); *Wadara* (Nigeria) = Shuwa × zebu or Shuwa + Azaouak — *13*:14, 15

Siamese; tr.; z.; yellow, red, brown, or black; orig. of Siam-Kedah; syn. *Thai* — *8*:9

Siam-Kedah (N. and E. Malaya); tr.m.; z.; usu. red or reddish dun; often dwarf in E.; orig. from Siamese; syn. *Thai-Kedah*; vars: Kelantan, Trengganu — *7*:89, *8*:89, *16*:287

Siberian (U.S.S.R.); d.; Turano-Mongolian type; vars: Altai, Yakut — *2*:18, *7*:110-1, *14*:74, 76

Sicilian; tr.d.(m.); dark red; vars: Mezzalino (uplands), Modica (plains), Montanaro (mountain) — *3*:234, *4*:167, *8*:347, 350

Siebenburgisch: see Transylvanian

Siegerland (Westphalia); German Red type; Ger. *Siegerländer*; syn. *Westphalian Red*

Sierra Leone (W. Africa): var. of N'Dama, ? with Dwarf Shorthorn blood — *9*:189-90, *12*:228

Silesian Red; Central European Red type; Ger. *Schlesisches Rotvieh*

Silesian White-Back: see Glatz Mountain; Ger. *Schlesisches Rückenscheck*

Simmental (W. Switzerland); d.m.tr.; dun-red or leather-yellow, and white; orig. from Bernese; syn. *Swiss Red Spotted, Swiss Simmental Spotted, Ruşeţu* (Romania); orig. of Czechoslovak Red Spotted, Eastern Red Pied (France), Hungarian Red Spotted, Hungarian Simmental, Polish Simmental, Red Pied Friuli (Italy), Spotted Mountain (German Simmental), Sychevka (U.S.S.R.), etc. — *2*:105, *8*:349, *13*:178, *16*:210, 211, 277, *17*:19; Brazil - *12*:55; Romania - *3*:363; Yugoslavia - *8*:352; U.S.S.R. - *15*:79

Simmental d'Alsace: see Alsatian Simmental

Sindhi: see Red Sindhi

Sindhi, Grey: see Tharparkar

Singida White (Tanganyika); local strain of E. African Zebu

Sinhala (Ceylon); z.; sim. to Indian hill type; usu. black or red, sometimes pied; dwarf; syn. *Lanka* — *3*:474, *7*:103, *13*:133-4

Sinú, Sinuana: see Horned Sinú, Polled Sinú

Siri (Bhutan, India); tr.; z.; hill type; usu. black- or red-and-white — *10*:152, *13*:14

Sitamarhi: see Bachaur

SJM: see Black Pied Jutland

[Skåne] (Sweden); orig. from Red Pied Holstein and Dutch, × local; absorbed by Red Pied Swedish; syn. *Scanian* — *7*:96

SKB: see Swedish Polled

sladang: see sela[illegible]g

SLB: see Swedish Lowland

Slovakian Red (C[illegible]choslovakia); d.m.tr.; Central European Red type; rare

[Småland] (Sweden); local; absorbed into Red Pied Swedish — *8*:114

Small Spotted Hill (Germany); d.tr.; Mottled Hill type; inc. Hinterwald and Vorderwald; Ger. *Scheckig, Gelbscheck*; syn. *Black Forest*

Sokoto (N.W. Nigeria); d.tr.; West African Shorthorned Zebu type; grey or dun; syn. *Bokoloji, Gudali, Sokoto Gudali* — *6*:82, *13*:14

Somaliland Zebu: see Bo[illegible]an, Gherra, Jiddu, Magal — *3*:377, *14*:208-9

Somba (N. Togo and [illegible]homey): var. of West African Dwarf Shorthorn

Sonkheri: red-and-white var. of Dangi

Sorco: see Jiddu

Sorthi: see Gir

South Anatolian Red (Turkey); d.; vars: Aleppo (*i.e.* Damascus), Çukurova, Dörtyol, Kilis; Turk. *Cenubî Anadolu Kirmizi* — *8*:8-9, *13*:134

South & West Norwegian; d.; inc. Lyngdal and Vestland Polled (red), and Vestland Fjord (dun, red, or black; hd); Nor. *Sør og vestlandsfe*; syn. *Vestland* — *2*:90-1, 186, *6*:89

South China Draft: see Chinese Yellow

South Coast (Australia): see Australian Illawarra Shorthorn

South Devon (England); d.m.; red; syn. *South Hams*; see also Devon — *18*:27

Southern (India): see Tanjore

South Hams: see South Devon

[South Wales Black]; syn. *Pembroke*; orig. (+ North Wales Black) of Welsh Black; vars: Castle Martin, Dewsland

Spanish Mountain (Sierra Morena and Huelva); tr.m.; black; Sp. *Serrana* — *17*:9

Spotted: see Spotted Mountain

Spotted Moravian: see Moravian Red Spotted

Spotted Mountain (Austria and S. Germany); d.m.tr.; orig. from Bernese and Simmental × local; Ger. *Alpenfleckvieh, Fleckvieh, Grosses Fleckvieh, Hohenfleckvieh, Scheckvieh*; syn. *German Simmental, Red Spotted Highland*; vars: Danube, East Styrian, Innviertel, and Unterinntal (Austria), Messkirch (Baden), Miesbach (Bavaria), Württemberg Spotted; not *Brindled Highland* — *1*:95, *2*:200, *10*:23, 150, 216, *11*:89, *14*:212

Spotted Valdostano: see Aosta
SRB: see Swedish Red-and-White
Stara-Planina (Bulgaria); grey; ? orig. from Iskar × Rhodope
Steierisch, Steiermärkler: see Styrian
Steppe: see Grey Steppe
Styrian Blond (Austria); Light Alpine type, sim. to Carinthian Blond; Ger. *Steierisches Blondvieh*; syn. *Mariahof* — *3*:254
Styrian Brown (Austria): var. of Brown Mountain — *3*:254, *5*:12-13
Styrian Spotted: see East Styrian Spotted
Sudanese Fulani (Fr. Sudan); m.; West African Lyre-horned Zebu type; often light grey; Fr. *Zébu peul Soudanais*; var: Toronké
Sudanese Longhorn (A.-E. Sudan, S. of lat. 10°N.); m.; ? Sanga or Sanga × zebu; sim. to Uogherá (Ethiopia) and Wadai-Dinka (Congo); syn. *Nilotic*
Sudanese Shorthorned Zebu (A.-E. Sudan N. of lat. 10°N.); d.tr.; East African Zebu type; syn. *Arab*; vars: Butana, Dongola, Shendi (red), White Nile, Kenana (blue-grey) — *7*:284, *15*:235
Sudeten (Czechoslovakia); d.m.tr.; orig. from Central European Red; Czech, *Sudety*; syn. *Moravian Sudeten*; vars: Sudeten Red, Sudeten Spotted (often colour-sided); orig. of Glatz Mountain — *2*:313, *3*:371-2, *4*:277
[Suffolk Polled] (England); syn. *Suffolk Dun*; orig. (× Norfolk Horned) of Red Poll
Suk (W. Kenya): local E. African Zebu
Sumatran (Indonesia); z.
Surati, Surti: see Gir
Sussex (England); [tr.]m.; sim. to Devon; red — *13*:177
Svensk: see Swedish
Svitto-Sarda: see Brown Sardinian
Swabian Spotted: see Württemberg Spotted
Swazi: see Zulu
Swedish Ayrshire; d.; orig. from Ayrshire (1st imported 1847) × local; joined with Red Pied Swedish to form Swedish Red-and-White (1928) — *5*:130, *8*:114, *13*:13-14, *16*:110
Swedish Friesian (S. Sweden); d.; var. of Friesian from recent Dutch imports (orig. with local and East Friesian blood); Swed. *Svensk Låglands Boskap* (= *SLB*); syn. *Black-and-White Swedish, Swedish Lowland* — *2*:6-7, *8*:2-3
Swedish Highland: see Swedish Mountain
Swedish Mountain; white var. of Swedish Polled, with red or black points and side spots; sim. to North Finnish and to Blacksided Trondheim & Nordland (Norway); Swed. *Fjäll*; syn. *Swedish Highland* — *1*:10, *8*:2-3, 31, 363, *11*:159, *12*:16, *14*:130
Swedish Polled (N. Sweden); d.; inc. (since 1937) Swedish Mountain (white) and Swedish Red Polled; Swed. *Svensk Kullig Boskap* (= *SKB*) syn. *North Swedish* — *14*:130
Swedish Red-and-White; d.; orig. (1928) from Red Pied — *8*:114, *10*:19,

Swedish + Swedish Ayrshire; Swed. *Svensk Röd och Vit Boskap* (= *SRB*); syn. *Swedish Red Spotted* — *11*:161, *12*:69, *13*:13-14, *14*:139

Swedish Red Pied: see Red Pied Swedish

Swedish Red Polled: var. of Swedish Polled; sim. to Red Polled Østland (Norway); Swed. *Röd Kullig Lantras* or *Röd Kullig Boskap* — *8*:2-3, *13*:1, *14*:130

Swiss Black Spotted: see Fribourg; Fr. *Tachetée Noire*, Ger. *Schweizer Schwarzfleckvieh*

Swiss Brown (E. Switzerland); d.m.tr.; Ger. *Schweizer Braunvieh*; syn. *Rigi* (obs.), *Runcu* (Romania), *Schwyz*; vars: Brown Alpine (Italy), German Brown, Montafon and Styrian Brown (Austria); orig. of Brown Swiss (U.S.A.), Brown Sardinian — *2*:204-5, *3*:251-2, 4:288, *12*:186, *13*:178-9, *16*:75 Brazil - *12*:55, U.S.S.R. - *10*:216

Swiss Red Spotted: see Simmental; Ger. *Schweizer Rotfleckvieh*

Swiss Simmental Spotted: see Simmental

Sychevka (Smolensk, U.S.S.R.); d.m.; orig. (1880 on) from Simmental × local; Russ. *Syčëvskiĭ*; syn. *Sychevka Simmental*; not *Sychovsk* — *15*:13-4, 79-80, *19*:45

Tachetée de l'Est: see Eastern Spotted

Tagama: see Azaouak

Tagil (South Urals, U.S.S.R.); d.; usu. black pied, also red or red pied; orig. (mid 19th c.) from Friesian, Kholmogor, *et al.*, × local — *1*:8, *7*:108, *8*:25, *15*:14-5

Tajik (U.S.S.R.); z.; usu. black or brown; see also Kuramin; not *Tadzhik* — *4*:162, *12*:12

Talabda: see Kankrej

Talysh (S.E. Azerbaijan); z.; Russ. *Talyšinskiĭ*; syn. *Azerbaijan Zebu* — *10*:233

Tambov Red (U.S.S.R.); m.d.; orig. (early 19th c.) from Simmental × (Tux × local); Russ. *Krasnotambovskiĭ* (= *Red Tambov*) — *9*:10, *17*:19, *19*:45

Tanganyika Zebu: *i.e.* East African Shorthorned Zebu in Tanganyika; local strains have been called Iringa Red, Masai Grey, Mkalama Dun, Singida White, etc. — *5*:392, *7*:300-1

Tanjore (Madras, India): dehorned var. of Kangayam; syn. *Southern*

Tapti: var. of Khillari; syn. Thillari

Tarentaise (French Alps; and E. Turin, Italy); d.m.; fawn to yellow; syn. *Tarine*; not *Tarente*, *Tarentais* — *2*:307, *4*:409, *7*:106

Targhi, *Targi*, *Targui*: see Tuareg

Tarine: see Tarentaise

Taro (W. Emilia, Italy): dark reddish-grey var. of Bardi; It. *Valtarese*, *Valle del Taro*

Tashkent: see Bushuev; Russ. *Pritaškentskiĭ*

Taypor (Bihar, India): z.; local crossbreds; not *Taylor*

[Teck] (Württemberg, Germany); absorbed by Spotted Mountain — *9*:105

[Teeswater] (England); sim. to Holderness; Dutch orig.; syn. (unimproved) Shorthorn; orig. (+ Holderness) of Shorthorn

Telemark (Norway); d.; colour-sided, usu. red or brindled; lyre horns — *2*:90, *6*:89, *13*:121-2

Teli: see Sahiwal

Teso: see Bukedi

Texas Longhorn (U.S.A.); Spanish orig. (? Andalusian); *cf.* Criollo — *8*:229, *9*:305, *12*:54-5

Thai: see Siamese

Thai-Kedah: see Siam-Kedah

Thanh-Hoa: var. of Indo-Chinese; medium hump

Tharparkar (Sind, India); d.tr.; z.; lyre-horned type; grey; syn. *Grey Sindhi*, *Thari*; not *Thar Parkar* — *10*:91-2, *13*:14, 190, *16*:17

Thessaly: var. of Greek Shorthorn

Thillari: var. of Khillari; syn. Tapti. [= cattle breeder]

Thrace (Greece): see East Macedonian (& Thrace)

"Thurinji Thazhai Madu" (Madras, India); z.; local var.; white. [= thurinji-eating cattle] — *11*:153

Tibetan (Tibet, Sikong, and Chinghai); sim. to Mongolian but dwarf; *cf.* Indian Hill

Tieflandrind: see Lowland

Tintern Black (Natal); m.d.; var. of Drakensberger; orig. from Afrikaner × local in 20th c. in Tintern herd — *16*:16

Tirolese: see Tux-Zillertal

[Tiruchengode] (Madras, India)

Tonga: see Baila

Toro (Uganda): var. of Ankole

Toronké Fulani; m.d.; var. of Sudanese Fulani sim. to Senegal Fulani; usu. white — *18*:29

Tortona (S.W. Piedmont, Italy); sim. to Pontremoli and Bardi but smaller; It. *Tortonese* — *18*:27-8

Touareg: see Tuareg

Toubou (E. Niger, Fr. W. Africa): Red Bororo × Kuri crosses

Transcaucasian: see Caucasian

Transtagana: see Alemtejo

Transylvanian: var. of Romanian Steppe with huge horns; Ger. *Siebenburgisch*; syn. *Grey Transylvanian*, *Transylvanian Steppe* — *6*:194, *8*:3

Treignac: var. of Limousin — *7*:214-5

Trengganu (Malaya): var. of Siam-Kedah

Trondheim, *Trondhjem*: see Blacksided Trondheim, Red Trondheim

tsine (Burma) = *Bos* (*Bibos*) *sondaicus birmanicus*; var. of banteng; not *hsaine*, *tsaine*, *tsaing* — *10*:91

Tuareg (Niger bend, Fr. Sudan); m.tr.; West African Shorthorned Zebu type; Fr. *Touareg*; sing. *Targui* — *17*:107-8

Tudanca: mountain var. of Santander; being absorbed by Swiss Brown — *12*:67, *17*:9, 10-11

Tuni (Somalia): var. of Jiddu

Tunisian: var. of Guelma type of Brown Atlas — *8*:1-2, *15*:81

TURANO-MONGOLIAN (Central Asia); inc. Kalmyk, Kirgiz, Mongolian, Siberian, Tibetan — *5*:130, *6*:195, *11*:153

Turino (Portugal and Brazil); d.(m.); orig. from Friesian; not *Tourino* — *15*:220

Turkana (N. W. Kenya); local East African Zebu

Turkmen (U.S.S.R.); local zebu crosses; not *Turkoman, Turkmenian* — *10*:150, 151

Tux: var. of Tux-Zillertal; black or reddish black with white tail and belly; Ger. *Tuxer* — *2*:16-17

Tux-Zillertal (Austria); syn. *Tirolese*; vars: Tux (black), Zillertal (red); rare — *2*:16-17, *4*:278

Tyrolese: see Tux-Zillertal

Uganda Zebu; East African Shorthorned Zebu type; inc. Bukedi, Karamoja, West Nile — *17*:87

Ukamba: see Kamba

Ukrainian Grey (U.S.S.R.); m.tr.d.; Grey Steppe type; Russ. *Seroukrainskiĭ* (= *Grey Ukrainian*); syn. *Ukrainian Grey Steppe* — *1*:8, *2*:97, *8*:25, *11*:153-4

Ukrainian Red (S. European U.S.S.R.); d.m.; sim. to Bessarabian Red; orig. (by Mennonites in late 18th c. and early 19th c.) from Red East Friesian and Angeln, × Ukrainian Grey; Russ. *Krasnyĭ stepnyĭ ukrainskiĭ* (= *Red Steppe Ukrainian*); syn. *Red Colonist, Red Crimean, Red German* (till 1941), *Red Steppe* — *1*:8, *7*:103-4, *9*:208, *14*:72, 212-3, 213, *19*:41

Ukrainian Whitebacked (U.S.S.R.); m.; *cf.* Polish Whitebacked — *14*:210

Ulten (Ger.), *Ultimo* (It.): see Grey Adige

Umblachery (Madras, India); z.; local var. sim. to Kangayam; white or grey with white points and back line — *13*:191

Unterinntal (Austria): var. of Spotted Mountain

Uogherá (Ethiopia); m.tr.; ? Sanga or Sanga × zebu; sim. to Sudanese Longhorn and Aradó (Eritrea), usu. red or red-pied; syn. *Dobbá* — *5*:2, *8*:330

Upper Baden Spotted: see Messkirch

Upper Bavarian Spotted: see Miesbach

Upper Swabian Spotted: see Württemberg Spotted

[urus] = *Bos primigenius* Boj.; syn. *aurochs, European wild ox*; Ger. *Ur*; var: African urus; orig. of Grey Steppe and other breeds; not *European bison*

Uys (Natal); d.m.tr.; var. of Drakensberger; orig. from black Friesian × Afrikaner, ? with Zulu blood, in late 19th c. by D. Uys — *16*:16

Vadhiyar: see Wadhiar
Vagadia: see Kankrej
Val d'Adige: see Grey Adige
Val d'Aosta: see Aosta
Valdarno: var. of Chiana
Val di Chiana: var. of Chiana — *17*:121
Valdostano: see Aosta
Val d'Ultimo: see Grey Adige
Valle del Taro, Valtarese: see Taro
Vendée, Vendée-Parthenay: see Parthenay
Vendée Marsh: var. of Parthenay; Fr. *Vendéenne maraîchine* — *4*:164
Vendonnais: var. of Limousin — *7*:214-5
Venetian (S. Venetia, Italy): var. of Apulian; It. *Pugliese del basso Veneto* — *2*:313, *3*:253-4, *8*:351
Vestland Fjord: var. of South & West Norwegian; usu. dun, also red or black; Nor. *Vestlandsk fjordfe*; syn. *Fjord, West Coast Fjord, Westland horned* — *13*:121-2, *17*:133
Vestland Polled: var. of South & West Norwegian; red; Nor. *Vestlandsk raukolle*; syn. *West Coast Red Polled, Westland Polled*
Villard-de-Lans (Isère, S.E. France); tr.m.; yellow-brown: few, local; not *Villars de Lans* — *4*:409
Vit: see Iskar
Vladimir: see Yaroslavl
Vogelsberg (Hesse, Germany); German Red type; Ger. *Vogelsberger* — *9*:306, *10*:15, 91. *12*:184, *15*:99
Vogtland (Saxony, Germany); German Red type; Ger. *Vogtländer*
Vorarlberg Brown: see Montafon
Vorderwald (N. Black Forest, Germany); d.tr.; Mottled Hill type; red to black with blaze on face; Ger. *Vorderwälder* — *6*:286, *7*:300
Vosges (N.E. France); tr.d.m.; black-and-white, colour-sided; Fr. *Vosgienne*; Ger. *Vogesen* — *10*:77

Wadai-Dinka (N.E. Belgian Congo); ? Sanga or Sanga × zebu
Wadara (Nigeria): (1) Azaouak + Shuwa, (2) Shuwa with Kuri blood; var: Kilara — *13*:14
Wadhiar, Wadial: see Kankrej; not *Vadhiyar*
Wagad: see Kankrej
Wahima: see Bahima
Wakamba: see Kamba
Wakuma: see Ankole
Walachian Dwarf (Slovakia); brown pied or red pied
Waldeck; German Red type; Ger. *Waldecker*
Waldviertel (Lower Austria); white or pale yellow; Light Alpine type; Ger. *Waldviertler*; syn. *Manhartsberg, Schillern* (Czechoslovakia); not *Waldriert*; rare — *4*:278, *7*:103

Watusi: see Ankole; syn. *Batusi, Watussi Longhorn*

Welsh Black; m.d.; orig. from North Wales Black + South Wales Black

Werdenfels: see Murnau-Werdenfels

Wesermarsch (Oldenburg, Germany); d.m.; var. of Black Pied Lowland; Shorthorn blood; Ger. *Oldenburger-Wesermarsch* — *7*:300

West African Dwarf Shorthorn; W. A. Small Humpless type; usu. black or dark brown, sometimes pied; local vars: Gambia, Lagoon (Ivory Coast, Togo and Dahomey), Somba (N. Togo and Dahomey), Logone (Chad), Nigerian, Bakosi (French Cameroons); syn. *Dwarf Humpless, Dwarf Shorthorn, Pagan, West African Shorthorn*

West African Humpless: see Kuri (Lake Chad) and West African Small Humpless; syn. *Taurine* (Fr.)

West African Longhorn: see Kuri, N'Dama; ? orig. from Hamitic Longhorn

West African Shorthorn:
see (1) West African Dwarf Shorthorn,
(2) West African Small Humpless,
or (3) Gold Coast Shorthorn

WEST AFRICAN SMALL HUMPLESS; inc. Dwarf Shorthorn and N'Dama; also Baoulé (Ivory Coast), Gold Coast Shorthorn, Borgu (Dahomey); ? orig. from *B. brachyceros* with some zebu (Gold Coast) and Hamitic Longhorn (N'Dama) blood; syn. *West African Shorthorn* — *18*:28

WEST AFRICAN ZEBU; inc. short-horned (Maure, Tuareg, Azaouak, Shuwa, Fellata, Sokoto), medium-horned (Diali, Adamawa), lyre-horned (Senegal Fulani, Sudanese Fulani, White Fulani), and long-lyre-horned (Red Bororo)

West Coast (Norway): see Vestland

Westerwald (Rhineland-Nassau, Germany); tr.m.d.; Mottled Hill type; brown with white markings; Ger. *Westerwälder* — *7*:104

West Finnish; d.; red var. of Finnish; Finn. *Länsi-Suomalainen Karja* (= *LSK*); syn. *Brown Finnish, Red Finnish*; part orig. of Estonian Native — *3*:3-4, *6*:89, *10*:93, 95, *12*:58

West Flemish: see Red West Flemish

West Friesian: see Dutch Friesian

West Highland (Scotland): see Highland

Westland: see Vestland

West Macedonian: dwarf var. of Greek Shorthorn; *cf.* Rhodope (Bulgaria) and Macedonian (Yugoslavia)

West Nile (N.W. Uganda); E. African Zebu type

Westphalian Red: see Siegerland; Ger. *Westfälisches Rotvieh*

Westphalian Red Pied: see Red Pied Westphalian

White-backed (Germany); Mottled Mountain type; inc. Glatz, Pinzgau, Sudeten; Ger. *Rückenblessen, Rückenscheck*; see also Polish Whitebacked, Ukrainian Whitebacked, and colour-sided type

White Bororo: see White Fulani

White Caceres (Extremadura, Spain); semi-wild; Sp. *Blanco Cacereño*; *c.* 100 only — *17*:9

white-face, *i.e.* Hereford pattern — white head, belly, feet and tail-tip: see Hereford and Schönhengst (white more extensive), Groningen, Yaroslavl, and Whiteheaded Colonist (white less extensive)

White Finnish: see North Finnish

White Forest: see British White

White Fulani (N. Nigeria); tr.d.m.; West African Lyre-horned Zebu type; usu. white with black skin and points; syn. *Akou* or *White Bororo* (Fr. Cameroons), *Bunaji*, *White Kano*, *Yakanaje* — *6*:82, *13*:14, *18*:29

Whiteheaded Colonist (N.W. Ukraine); d.; black or red with white head, feet, and belly; orig. (end of 18th and early 19th c.) from Friesian × local; Russ. *Belogolovoko-lonistskiĭ*; syn. *White-headed Ukrainian* — *1*:8

Whiteheaded Kazakh (Kazakhstan, U.S.S.R.); tr.(d.); orig. from Hereford (imported 1932) × Kazakh; beef and dual-purpose types — *18*:376, *19*:175

White Horned: var. of British White

White Hungarian: see Hungarian Steppe

White Kano: see White Fulani

White Lake Chad: see Kuri

White-marked (Germany); tr.m.d.; Mottled Hill type; brown with white markings; inc. Kelheim and Westerwald; Ger. *Blässiges, Braunscheck*; syn. *Blazed*

White Meuse and Schelde: see Blue

White-middled: see Belted

White Nile: var. of Sudanese Shorthorned Zebu

White Polled: var. of British White

White-Russian Red (U.S.S.R.); d.; Central European Red type; Russ. *Krasnobelorusskiĭ* (= *Red White-Russian*); syn. *Byelo-Russian* — *1*:8, *3*:145

White-sheeted Somerset: see Sheeted Somerset

wild: see banteng, gaur, kou-prey, urus

Wild White: see British White

Wilstermarsch: var. of Red Pied Holstein

Württemberg Spotted (Germany): var. of Spotted Mountain; Ger. *Württemberger Fleckvieh*; syn. *Upper Swabian Spotted*; not *Wurtemburg* — *5*:272, *8*:126, *9*:104-5, *10*:89

yak (Tibet and Mongolia) = *Bos* (*Poephagus*) *grunniens*; Chin. *mao niu* (= *hairy cattle*) — *5*:400, *7*:243, *8*:227, *11*:152

Yakanaje: see White Fulani

Yakut: var. of Siberian — *5*:130

Yaroslavl (U.S.S.R.); d.; usu. black with white head and feet; orig. in late 19th c., Kholmogor blood; Russ. *Jaro-* — *1*:8, *2*:98, *6*:194-5

slavskiĭ; syn. *Domshino, Nizhegorod, Vladimir*; not *Jaroslav, Jaroslavl, Yaroslav*

Yellow: see Chinese Yellow

Yellow and Blond Mountain, Yellow and Pale Highland: see Yellow Hill, Light Alpine; Ger. *Gelbes und lichtes Höhenvieh*

Yellow Franconian (Bavaria, Germany); Yellow Hill type; orig. in late 19th c. from Simmental, Elling, Scheinfeld, etc.; Ger. *Gelbes Frankenvieh*; syn. *Franconian* — *2*:18, 199, *7*:103, *9*:2-3, *11*:218, *13*:15, *14*:12

Yellow Hill (Germany); tr.m.d.; orig. from self-coloured Bernese and Brown Swiss × native red or red spotted; inc. Glan-Donnersberg, Limpurg, Lahn, Yellow Franconian; Ger. *Einfarbig gelbes Höhenvieh* — *5*:263-4, *7*:103, *13*:15

Yola: var. of Adamawa with Dwarf Shorthorn blood

Yorkshire: see Holderness

Yssel: see Meuse-Rhine-Yssel

Yugoslavian Steppe (N.E. Yugoslavia); tr.; Grey Steppe type; dwarf var: Posavina; orig. (with Buša) of Kolubara and other local vars. — *6*:188, *8*:3-4

Yurino (Gorki, U.S.S.R.); d.; red or brown; orig. from Swiss Brown (1880-1908) × (Gorbatov and Tux, × local) (1812-80); Russ. *Jurinsk*; not *Yurin*

Zaers: see Moroccan Blond

Zamora (Spain); tr.m.; syn. *Sayaguesa*; var: Aliste — *17*:9

Zavot (N.E. Turkey); d.; orig. from Schwyz and Simmental (in Caucasus); pl. *Zavotlar*. [Russ. = factory]

ZEBU = *Bos indicus*; inc. Indian, East African, West African, S.E. Asiatic, *et al.*; orig. of Chinese Yellow, Sanga, *et al.*; syn. *Brahman* (U.S.A.) — *8*:22

zeburano (Brazil) = halfbred zebu

Zetland: see Shetland

Zillertal: var. of Tux-Zillertal; red or red-brown — *2*:16-17

zo (Tibet): cattle × yak 1st cross; Chin. *pien niu*, Russ. *Hainyk*; ♀ is zomo; syn. *dzo* — *5*:137-8, 264, *14*:224

Zubairi: see Jenubi

Żuławki: see Polish Marsh

Zulu (Zululand, Swaziland, and S. Mozambique); Sanga type; syn. *Swazi*; to be improved by selection and called Nguni — *5*:12, *15*:236-7, *17*:224

Abkhasian (N.E. Turkey); Turk. *Abaza-Keçi*; not *Abchasan*

Abyssinian; d.; ? Nubian type; sim. to Sudanese Desert; reddish brown — *5*:2

Afrikaner: see Boer

Agrigento (Sicily); d.; syn. *Girgenti*; It. *Agrigentina* — *7*:228, *9*:326-7

Akyat (Jaffna, Ceylon); local short-legged var.; ? Burmese origin

Albanian; d.fl.; Balkan type; larger mountain var. (usu. grey, or brown), and smaller plains var. (usu. red), also Capore var. (with corkscrew horns) — *8*:328, *9*:95, *10*:240-1

Aleppo: see Samar

Algerian Red: see Mzabite

ALPINE: inc. French Alpine, Italian Alpine, Rock Alpine, Swiss Mountain

alpine wild: see ibex

Anatolian Black (Turkey); m.fl.; Kurdish type; Turk. *Kıl-Keçi*; syn. *Turkish Native* — *1*:4, *3*:269, *8*:8-9, *13*:149

Anglo-Nubian (Great Britain); d.; hd or pd; orig. (mid 19th c. from Oriental lop-eared (Zaraibi, Chitral, and Jamna Pari) × English; not *Nubian* (U.S.A.) — *5*:157, *9*:128

Anglo-Nubian-Swiss: see British

Angora (Turkey); fl.m.; Turk. *Tiftik-Keçi*; syn. *Mohair goat, Sybokke* (S. Africa); not *Ankara* — *1*:175, *3*:269, *9*:327, *13*:149

Ankara: see Angora

Appenzell (Switzerland); d.; pd; sim. to Toggenburg, but white — *2*:406, *13*:149, *15*:39, 79

Arab: see West African Long-legged

Assam Hill (India); m.; usu. white

Auvergne (France); d.; syn. *Massif Central* — *13*:149

Azerbaijan (Armenia and Azerbaijan, U.S.S.R.); m.d.; Kurdish type; syn. *South Caucasian* — *15*:70

Baguirmi (Chad); intermediate between West African Long-legged and West African Dwarf

Bahu (Congo) — *6*:302-3

Baladi (Lower Egypt); Syrian type; ♂ hd, ♀ hd or pd; var: Sharkawi; syn. *Bedouin* — *12*:113-4

Baladi (Syria): see Damascus

BALKAN (S.E. Europe); inc. Albanian, Greek, Red Bosnian — *6*:188, *7*:132

Baluchi (Baluchistan, India); fl.d.; usu. black — *12*:145

Barbari (E. Punjab-United Provinces, India); d.; not *Bar-Bari, Barbary* — *4*:318-9, *8*:56, *12*:145

Bari (Sind, India); d.m.; usu. white; not *Barri* — *12*:173, *13*:94-5

Bashkir (U.S.S.R.)

1. Cis-Ural (N.W. Bashkiria); d.m.; var. of North Russian — *15*:70
2. Trans-Ural (S.E. Bashkiria and Chkalov); fl.d.; usu. black; var. of Kirgiz; syn. *Chkalov, Orenburg* — *11*:33-4, *15*:70

Béarn: see Pyrenean; Fr. *Béarnaise*

Bedouin: see Baladi (Egypt)

Beetal (N. Punjab, India); d.; sim. to Jamna Pari; not *Betal* — *4*:318, *8*:56, *12*:145

Beladi: see Sudanese

Belgian Fawn; pd; Fr. *Chamoisée*, Fl. *Hertegeit* — *5*:249, *7*:132-3

Belgian White: see Campine

Bengal Black (E. Bengal, India); m.; brown var: Bengal Brown — *17*:144

Bengal White: see White Bearded Bengal

Berari (Central Provinces, India); d.m.; usu. black

Berber (French North Africa)

Berry: see Touraine-Poitou-Berry

Berry-Touraine (France); d.; orig. from French Alpine; Fr. *Race mantelée de Berry-Touraine* — *2*:188-9

bezoar (Middle East) = *Capra aegagrus* Erael.; sabre horns; syn. *pasan, pasang, pazan, Persian wild*; orig. of domestic goat — *1*:24, 174, *10*:171

Bhungri (Bombay, India); m.

Bikaneri (Rajputana, India); m.; black

Black Forest: var. of Fawn German Improved; Ger. *Schwarzwald* — *1*:24-5, *5*:410

Blackneck: see Valais Blackneck

Boer (S. Africa); m.d.; ? Nubian orig. — *6*:117

Bornu white: var. of Nigerian — *7*:386-7

Brienz: see *Oberhasli-Brienz*

British; mixed type; orig. from English and Swiss; syn. *Anglo-Nubian-Swiss*

British Alpine (Great Britain); d.; black with light points and face stripes; hd or pd; orig. from Swiss Mountain (imported 1903) and British — *12*:145

British Saanen (Great Britain); d.; white; hd or pd; orig. from Saanen (imported 1903 and 1922) and British — *12*:145

British Toggenburg (Great Britain); d.; brown with light points and face stripes; pd or hd; orig. from Toggenburg and British — *13*:150

Brown Bengal: brown var. of Bengal Black — *17*:144

Bündner Strahlenziege: see Grisons Striped

Cameroons Dwarf: see West African Dwarf

Campine (N. Belgium); pd; syn. *Belgian White* — *7*:132-3

Canindé (Ceará, Brazil) — *18*:181, 417

Capore: var. of Albanian with long corkscrew horns. [= like a buck] — *10*:240-1

Čarkissar: see Charkissar
Carpathian (S.E. Europe); d. *8*:3, *9*:30
Cashmere: see Kashmir
Caucasian: see Azerbaijan, Dagestan, Karachaev, Mingrelian
Caucasian ibex = *Capra caucasica*; syn. *tur*
CENTRAL ASIATIC DOWN; fl.; inc. Don, Kashmir, Kirgiz, Mongolian, Tibetan *5*:156, *10*:170, *15*:70
chamois (Europe and S.W. Asia) = *Rupicapra rupicapra*
Chamois Coloured; Swiss Mountain type; d.m.; Ger. *Gemsfarbige Gebirgsziege*, Fr. *Chamoisée*; syn. *Brienz, Chamoix Alpine, Greyerz, Oberhasli-Brienz, Schwarzenburg-Guggisberg* (Germany); pd and hd vars.; orig. of Fawn German Improved *11*:238, *13*:149, *15*:39, 79
Chamoisée (Belgium): see Belgian Fawn
Chaper (Sind, India); m.; usu. black; not *Chapar*
Charkissar (Uzbekistan, U.S.S.R.); fl.; grey, brown or black; orig. from Angora × Uzbek; syn. *Čarkissar* *18*:297
Chigu (N.E. Punjab, India); fl.m.tr.; sim. to Gaddi but smaller, live at higher altitude, and produce pashmina; usu. white; syn. *Kangra Valley*; not *Cheghu* *13*:94-5
Chitral (N. of N.W. Frontier Province, India); local var.
Chkalov: see Bashkir (Trans-Ural)
Costeña: see Málaga. [= coastal]
Crimean (U.S.S.R.); m.d.; Russ. *Krymskoĭ* *15*:70
Criollo (Spanish America); Sp. orig in 16th c. [= native] *13*:210
Curaçá (Brazil); syn. *Marota* *18*:181, 417
Cutchi (W. India); d.; black; syn. *Kathiawari*; not *Katchi, Kutchi* *12*:145
Cyprus; Syrian type
1. Free-range; m.d.; usu. dark (red to black); long-haired, usu. hd *3*:122-3, *7*:27-8, *8*:261, *9*:129,
2. Tethered; d.; mixed population of local, Syrian and Maltese orig.; usu. light in colour; short-haired, usu. pd *17*:145

Dagestan (U.S.S.R.); m.d.; Kurdish type; syn. *East Caucasian* *11*:107-8, *15*:70
Damagaran dapple-grey: var. of Nigerian *7*:386-7
Damani (S. of N.W. Frontier Province, India); d.; usu. black; syn. *Lama*
Damascus (Syria); d.; Syrian type; usu. red or brown, also pied or grey; usu. pd; ? orig. from Syrian Mountain; syn. *Baladi, Damascene* *2*:400-1, *7*:205, 284, *16*:38
Danish *14*:156
Dera Din Panah (W. Punjab, India); d.fl.m.; black; not *Daira Deen Panah* *13*:94-5
desi (India); = local, indigenous
Djelab: see Syrian Mountain
Døle (Norway); d.; var. of Norwegian; usu. blue pied or brown; pd; syn. *Gudbrandsdal* *4*:437-8, *12*:145

Don (Lower Volga, U.S.S.R.); fl.d.; Central Asiatic Down type; Russ. *Pridonskiĭ* — *4*:53, *8*:55, 260

Dutch White Polled: see Netherlands White

Dwarf: see Hejazi, Lapland Dwarf, Tibetan Dwarf, West African Dwarf

East Caucasian: see Dagestan

Egyptian: see Baladī, Saidi, Zaraibi

English; orig. (× Oriental lop-eared) of Anglo-Nubian and (× Swiss) of British

Etawah: see Jamna Pari

Fawn German Improved; d.; pd; orig. from Chamois Coloured (1st imported 1887) × native (Black Forest, Harz, Langensalza, Saxon, etc.); Ger. *Bunte, Rehfarbene,* or *Rehfarbige, deutsche Edelziege*; syn. *Deer-coloured German Improved*; vars: Black Forest, Franconian, Harz, Thuringian; not *Pied,* or *Spotted, German Improved* — *2*:124, *5*:410, *7*:93, 227-8

Fouta Djallon, Fouta Jallon: see West African Dwarf

Franconian: var. of Fawn German Improved — *5*:410, *9*:2-3

French Alpine (E. France); d.; orig. of Berry-Touraine and of Rock Alpine (U.S.A.): vars: Sundgau, Tarentaise — *4*:439, *5*:37, 157, *13*:149

Gaddi (N.E. Punjab, India); fl.m.; sim. to Chigu but larger and live at lower altitude; usu. white; syn. *Gadderan, Gadhairun, Kangra Valley*. [*Gaddi* are class of nomads] — *13*:94-5

Gadhairun: see Gaddi

Galla (N. Kenya); m.; white

Ganjam (Orissa, India); m.d.; black — *11*:204

Gebel (Sudan): see Sudanese Desert. [= mountain]

Gemsfarbig: see Chamois

Georgian: see Mingrelian; Turk. *Gürcü*

German Improved: see Fawn, White

German Toggenburg: see Thuringian

Gessenay: see Saanen

Girgenti: see Agrigento; It. *Girgentana*

goral (Himalayas) = *Naemorhedus goral* (Hardwick); not *goural*

Granada (Spain); d.; black; pd; Sp. *Granadina* — *2*:189, *13*:39, *14*:92

Graubündner: see Grisons

Greek; d.m.; Balkan type; var: Ulokeros — *7*:132, *8*:95

Greyerz: see Chamois Coloured; Fr. *Gruyère*

Grisons Striped; Swiss Mountain type; d.m.; black with pale face stripe and pale legs; Ger. *Bündner Strahlenziege* — *7*:323, *13*:149, *15*:39, 79

Gruyère: see Greyerz

Gudbrandsdal: see Dole

Guggisberg: see Schwarzenburg-Guggisberg

Guinea: see West African

Gujarati, Gujerati: see Surti

Harz: var. of Fawn German Improved — *5*:410
Hasli: see *Oberhasli-Brienz*
Hejazi (Arabia); usu. black; dwarf, long-haired — *15*:117
Hertegeit: see Belgian Fawn
[Hessian]; orig. (with Saanen) of White German Improved; Ger. *Hessen* — *5*:410
Himalayan; fl.; inc. Chigu, Gaddi, Kaghani, *et al.*; syn. *Indian white long-haired* — *8*:261, *9*:226
Himalayan wild: see thar

ibex (Alps) = *Capra ibex* L.; syn. *alpine wild goat, steinbok*; see also Caucasian ibex, Siberian ibex, Spanish ibex
Improved Dutch: see Netherlands White
Improved German: see Fawn German Improved, White German Improved
Improved North Russian (N.W. European U.S.S.R.); d.; white; orig. from Saanen × North Russian — *15*:70
Indian long-haired white: see Himalayan
Iraqi: see Syrian Mountain
Irish
Italian Alpine; sim. to Swiss Mountain

Jablu (Sind, India); fl.m.; syn. *Takru*
Jamna Pari (Etawah, United Provinces, India); d.m.; sim. to Beetal; not *Jamnapara, Jumna Pari, Jumnapari* — *4*:319, *8*:56, *12*:145, *16*:334
Jämtland: var. of Swedish Landrace — *9*:29
Jebel: see Syrian Mountain. [= mountain]

Kaghani (N. of N.W. Frontier Province, India); fl.; var. in N. produces pashmina
Kamori (Sind, India); d.m.fl.; grey and brown. [= fed on *Kamo*, a creeper] — *12*:145
Kanchi (Hyderabad, India); local var.
Kangra Valley: see Chigu, Gaddi
Kano brown: var. of Nigerian — *7*:386-7, *8*:317
Karachaev (N. Caucasus, U.S.S.R.); m.d.; syn. *North Caucasian* — *15*:70
Kara-Kalpak; *cf.* Uzbek — *10*:170-1
Kashmir; fl.; Central Asiatic Down type; white or black-and-white; syn. *Kel, Pashmina goat* (see also Chigu, Kaghani); not *Cashmere, Kashmere* — *4*:53, *8*:56, *12*:145
Katchi: see Cutchi
Kathiawari: see Cutchi
Katsina light-brown: var. of Nigerian — *8*:317
Kazakh (U.S.S.R.); m.d.fl.; var. of Kirgiz — *15*:70
Kel: see Kashmir
Khandeshi: see Surti
Kil-Keçi: see Anatolian Black

Kirdi, Kirdimi: see West African Dwarf
Kirgiz (Kirgizia, Kazakhstan, and Uzbekistan, U.S.S.R.); fl.m.d.; Central Asiatic Down type; vars: Bashkir (Trans-Ural), Kazakh, Uzbek — *8*:54, 259, *9*:127-8, *10*:170, *13*:94, *15*:70
Kunyi: see Surti
Kurdi (Kurdistan); fl.; sim. to Angora; syn. *Markhoz*
KURDISH: inc. Kurdi, Azerbaijan, Dagestan, Turkmen, Rovmit (Tajikistan), Anatolian Black
Kyasuwa (Gusau, N. Nigeria); ? = Kano brown or Katsina light-brown — *16*:39

Labi: short-eared var. of Leri
Lama: see Damani
[Langensalza] (Thuringia); part orig. (with Chamois Coloured) of Fawn German Improved
Lantras: see Swedish Landrace
Lapland Dwarf (N. Norway); d.; usu. white, also yellow or pied; bezoar horns — *14*:28-9
Leri (Sind, India); m.d.fl.; black; long ears; short-eared var: Labi; not *Lerri* — *12*:173, *13*:94-5

Madagascar; m.; short-haired lop-eared pied var. (Nubian type) and smaller long-haired hd var. — *17*:42
Mah (Szechwan, China); d.; brown with darker face and back stripes
Malabar (Madras, India); d.; mixed population; syn. *West Coast* — *2*:333, *17*:144-5
Málaga (Spain); d.; red; Sp. *Malagueña*; syn. *Costeña* (= *coastal*) — *2*:189, *13*:189
Maltese; d. — *6*:115, *9*:129
Mamber, Mambrine: see Syrian Mountain
Manipuri (Assam, India); m.; not *Manpuri* — *11*:203
Maradi: see Red Sokoto
markhor (Afghanistan) = *Capra falconeri* Wagner; screw horns; not *markhoor, markhorn* — *1*:24, 174, *10*:171
Markhoz: see Kurdi
Marota: see Curaçá
Marungu (Congo); d.m.; syn. *Mayema* — *6*:302-3
Marwari (Rajputana, India); d.fl.; black — *17*:144
Massif Central: see Auvergne
Maure: see West African Long-legged
Mayema: see Marungu
Megrel: see Mingrelian
Mehsana (N. Gujarat, India); d.fl.; black with black-and-white ears — *17*:144
Membrine: see Syrian Mountain
Meridional (Brazil); m.; usu. white. [= southern] — *18*:181, 417
Mingrelian (W. Georgia, U.S.S.R.); d.; syn. *Georgian, Megrel, Mengrelian, West Caucasian* — *3*:394, *4*:53, *15*:70

Mohair: see Angora

Moncayo (Saragossa, Spain); m.; usu. white with yellow belly and points — *18*:363

Mongolian; d.m.fl.; Central Asiatic Down type — *5*:156

Mountain (Syria): see Syrian Mountain

Moxotó (Ceará, Brazil); syn. *Black-Back* — *15*:222-3, *17*:43

Murcian (Spain); d.; vars: domestic (Sp. *Huertana*) usu. black and pd, and mountain (Sp. *Serrana* or *de Campo*) usu. mahogany and hd — *2*:189, 220, *12*:203, *13*:39, *18*:417

Mzabite (S. Algeria); d.; Nubian type; syn. *Algerian Red*, *Touggourt* — *13*:210

Netherlands White; d.; orig. from Saanen × local; syn. *Dutch White Polled*, *Improved Dutch* — *14*:196-7

Nigerian: West African Long-legged or intermediates with West African Dwarf; vars. Bornu white, Damagaran dapple-grey, Kano brown, Katsina light-brown, Red Sokoto (*q.v.*); see also Kyasuwa — *7*:386-7, *8*:317, *16*:39

Nigerian Dwarf: see West African Dwarf

Nilotic (S. Sudan); ♂ short horns, ♀ often pd

Nimari: see Surti

Nordfjord: see Vestland

Nordland (Norway): var. of Norwegian — *12*:145

North Caucasian: see Karachaev

North Russian (European U.S.S.R. north of Smolensk to Tatar A.S.S.R.); d.; usu. white; syn. *Tatar*; orig. (with Saanen) of Improved North Russian — *15*:70

Norwegian; d.; vars: Dole, Nordland, Rogaland, Telemark, Vestland — *2*:90-1, *4*:437-8, *12*:145

Nuba Mountain (Sudan): see Sudanese Desert

NUBIAN (N.E. Africa); d.; pd; Roman nose, long ears, short hair, long legs; inc. Abyssinian (?), Mzabite (Algeria), Shukria (Eritrea), Zaraibi (Egypt)

Nubian (U.S.A.): see Anglo-Nubian

Oberhasli-Brienz: see Chamois Coloured; syn. *Brienz*, *Hasli*, *Oberhasli*

Orenburg: see Bashkir (Trans-Ural)

Osmanabad (W. Hyderabad, India); m.d.; usu. black; not *Oosmanabad* — *2*:333, *13*:94-5

Pahari (Punjab, India); local var.; syn. *Pattu* (Kashmir) — *3*:393

Palestinian: see Syrian Mountain

pasan, *pasang*: see bezoar

pashmina: wool (down) from Kashmir goat, also from Chigu and from northern var. of Kaghani

Pateri: var. of Surti; not *Patiri* — *13*:150

Patnai (Bengal, India); local var.

Pattu: see Pahari
pazan: see bezoar
Persian wild: see bezoar
Pied German Improved: see Fawn German Improved
Pinzgau (Austria); d.; Ger. *Pinzgauer gemsfarbige* (= *chamois coloured*); pd, and black hd vars. *6*:302
Poitou: see Touraine-Poitou-Berry
Pridon: see Don
Pyrenean (France-Spain); d.; dark brown or black with white belly and feet; syn. *Béarn* *13*:149, *17*:9, 102-3
Pyrenean wild (Spain) = *Capra pyrenaica*; syn. *Spanish ibex* *12*:144

Red Algerian: see Mzabite
Red Bosnian (Yugoslavia); d.; Balkan type *8*:3-4
Red Skin: see Red Sokoto
Red Sokoto: var. of Nigerian; for leather; intermediate between West African Long-legged and West African Dwarf; syn. *Maradi* (Niger Colony) *7*:133, 386-7, *8*:317
Rock Alpine (U.S.A.); d.; orig from French Alpine *5*:156-7, 157
Rocky Mountain (N. America) = *Oreamnos americanus* (Blainville) *13*:94
Rogaland (Norway); d.; var. of Norwegian *4*:438
Rovmit (Tajikistan, U.S.S.R.); d.; Kurdish type; not *Rodamit, Rodmit* *4*:54-5, *10*:170-1

Saanen (W. Switzerland); d.; white; pd; Fr. *Gessenay*; orig. of British Saanen, Netherlands White, White German Improved, etc. *1*:108, *10*:170, *11*:238, *13*:149, *14*:28 *15*:39, 79
Sahel: see West African Long-legged
Saidi (Upper Egypt); Syrian type; sim. to Baladi but bigger. [= valley, *i.e.* of Nile]
St. Gallen; Swiss Mountain type; black with pale back stripe and feet; Ger. *St. Galler Stiefelgeiss* (= *booted goat*); nearly extinct
Salt Range (N.W. Punjab, India); d.fl.; black-and-white or black *17*:144
Samar (N.W. Syria); d.; var. of Syrian Mountain; syn. *Aleppo* *7*:205, *8*:8-9, *17*:213
Sardinian; d.m.; usu. black pied or chestnut, also grey or white *19*:80-1
[Saxon]; part orig. (with Chamois Coloured) of Fawn German Improved; var.: Wiesental *5*:410
Schwarzenburg-Guggisberg: see Chamois Coloured
Schwarzhals, Schwarzweisse Sattelziege: see Valais Blackneck
Schwarzwald: see Black Forest
Sciucria: see Shukria
serow (S.E. Asia) = *Capricornis sumatraensis* (Bechstein)
Serrana: see Spanish Mountain

Sharkawi (Lower Egypt): var. of Baladi
Shukria (Eritrea); d.; ? Nubian type; It. *Sciucria* — *5*:2
Siberian ibex = *Capra siberica* (Pall.) — *4*:318
Sirli (N.W. Frontier Province, India); fl.m. — *17*:144
Sirohi (N. Gujarat, India); d.; white or brown — *17*:144-5
Sokoto Red: see Red Sokoto
South Caucasian: see Azerbaijan
Spanish ibex: see Pyrenean wild
Spanish Mountain; m.; Sp. *Serrana* — *13*:39, *17*:9, 11
Spotted German Improved: see Fawn German Improved
steinbok: see ibex
Stiefelgeiss: see St. Gallen
Sudanese: inc. Nubian, Desert, and Nilotic
Sudanese Desert (N. Sudan); sim. to Abyssinian; light grey; ♂ maned; syn. *Gebel, Nuba Mountain*
Sudanese Nubian (A.-E. Sudan, N. of 12° N. lat.); d.; ? Nubian type; black; lop ears; syn. *Beladi*
Sundgau (Alsace): var. of French Alpine
Surti (Bombay, India); d.; syn. *Gujarati, Khandeshi, Kunyi, Nimari*; var: Pateri; not *Surati* — *2*:333, *3*:393, *8*:56, *13*:150
Swedish Landrace; d.; Swed. *Svensk Lantras*; var. Jämtland — *8*:2-3, *9*:29
Swiss Improved: see White Swiss Improved
SWISS MOUNTAIN; inc. Chamois Coloured, Grisons Striped, St. Gallen, and Verzasca; syn. *Swiss Alpine* — *2*:406, *15*:79
Sybokke (S. Africa): see Angora
SYRIAN; often black; long hair, short *prisca* horns or pd, long lop ears; inc. Damascus, Syrian Mountain, Cyprus, Baladi and Saidi (Egypt)
Syrian Mountain (Syria, Palestine, Jordan and Iraq); m.d.fl.; syn. *Djelab* or *Jebel, Iraqi, Mamber, Mambrine* or *Membrine, Palestinian, Syrian Black*; var: Samar (Aleppo); ? orig. of Damascus — *2*:400-1, *7*:205, *12*:144, *16*:38

tahr: see thar
Takru: see Jablu
Tanganyika — *11*:172
Tarentaise: var. of French Alpine
Tartar, Tatar: see North Russian
Telemark (Norway); d.; var. of Norwegian; white; pd — *4*:438, *12*:145
Telingana (E. Hyderabad, India); m.; not *Tellingani*
Tessin: see Verzasca
Thal (W. Punjab, India); local var.
thar (Himalayas) = *Hemitragus jemlahicus* (Smith); not *tahr*
Thori (Sind, India); m.d.; sim. to Bari but pd; usu. red; syn. *Thori Bari* — *12*:173, *13*:94-5
Thuringian: var. of Fawn German Improved; orig. from Toggenburg; Ger. *Thüringer Wald*; syn. *German Toggenburg* — *5*:410

Tibetan; fl.; Central Asiatic Down type
Tibetan Dwarf; d. *17*:44
Ticino: see Verzasca
Tiftik-Keçi: see Angora
Toggenburg (N.E. Switzerland); d.; sim. to Appenzell but brown with white face stripes and feet; Ger. *Toggenburger*, Fr. *Toggenbourg*; not *Toggenborg*; orig. of British Toggenburg, Thuringian *2*:406, *3*:392-3, *10*:36, 171, *13*:149, *15*:39,79
Touareg: see Tuareg
Touggourt: see Mzabite
Touraine-Poitou-Berry (France); d.; black-brown; syn. *Berry* *2*:188-9, *13*:149
Tuareg: see West African Long-legged; Fr. *Touareg*
tur: see Caucasian ibex
Turkish Native: see Anatolian Black
Turkmen (U.S.S.R.); Kurdish type

Ulokeros: var. of Greek with spiral horns *10*:35
Uzbek (U.S.S.R.); fl.d.m.; var. of Kirgiz *8*:55, *10*:170, *11*:107, *15*:70
Valais Blackneck (Switzerland); m.d.; front half black, hind part white; long hair; Fr. *Valaisanne à col noir*, Ger. *Walliser Schwarzhals, Schwarzweisse Walliser Sattelziege*; syn. *Viège* *2*:406, *13*:149, *15*:39, 79
Verzasca (Ticino, Switzerland); Swiss Mountain type; d.m.; black; syn. *Ticino* (It.), *Schwarzer Tessiner* (Ger.) *13*:149, *15*:39, 79
Vestland (Norway); d.; var. of Norwegian; syn. *Nordfjord, West Coast* *4*:437-8, *12*:145
Viège: see Valais Blackneck

Walliser Sattelziege or *Schwarzhals*: see Valais Blackneck
Welsh *4*:437
West African Dwarf (S. of W. Africa); syn. *Fouta Djallon* (Fr. W. Africa), *Kirdi* or *Kirdimi* (Chad), *Nigerian Dwarf, Cameroons Dwarf*, etc. *7*:387
West African Long-legged (N. of W. Africa); d.m.; syn. *Arab* (Chad), *Maure* (Mauritania), *Sahel* (Fr. W. Africa), *Tuareg*; see also Nigerian
West Coast (India): see Malabar
West Coast (Norway): see Vestland
White Bearded Bengal (Bengal, India); m.; also brown, black, or pied *17*:144
White German Improved; d.; pd; orig. from Saanen (1st imported 1892) × native (Hessian, etc.); Ger. *Weisse deutsche Edelziege*; not *German White Purebred* (or *Thoroughbred*) *2*:124, *5*:410, *7*:93
White Swiss Improved; pd; orig. from Appenzell × Saanen; Ger. *Weisse Schweizerziege, Weisse veredelte Landziege*; syn. *Zurich* *6*:115, *7*:323, *15*:39, 79

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[Wiesental]: var. of Saxon *5*:410

Zalawadi (Kathiawar, India); d.m.fl.; black with black-and-white ears *17*:144-5

Zaraibi (Upper Egypt); d.; Nubian type; pd; not *Zaraiby*, *Zareber*. [= penned; *cf.* also Zarabi, nr. Asyut] *9*:128, *12*:113-4

Zurich: see White Swiss Improved; Ger. *Zürcher*

HORSE

Abyssinian, Abyssinian-Galla: see Galla

Adaev (between Caspian and Aral Seas); l.; var. of Kazakh, ? with Turkmen blood; not *Adayev* — *12*:122-3, *14*:68

Akhal-Teke (Turkmenistan, U.S.S.R.); l.; sim. to Iomut but larger; Russ. *Ahal-tekinskiĭ*; syn. *Turki, Turkmenian, Turkoman*; not *Ahal-Teke, Akhal-Tekin* — *4*:157, *7*:209-10, *15*:154-5

Albanian; py; vars: Albanian Mountain (smaller) and Myzeqeja (plains) — *8*:328, *9*:95, *11*:82, *13*:129-30

Albanian Mountain: var. of Albanian

Albino (U.S.A.); l.; colour type (dominant white)

Algerian: see Barb

Altai (U.S.S.R.); tr.d.m.; Siberian Pony type; syn. *Oirot* — *11*:146, *14*:203-4

American Quarter Horse (Texas, U.S.A.); l.; orig. in 18th, revived in 20th c., from Thoroughbred, Criollo, etc.; syn. *Billie, Cold Deck, Copper Bottom, Kentucky Whip, Printer, Rondo, Shilo, Steeldust*; not *American Quarter Running Horse*. [from quarter-mile races of colonial period] — *13*:128, *14*:6-7, *15*:9

American Saddle Horse (Kentucky, U.S.A.); l.; orig. in 19th c. from Thoroughbred, Morgan, Canadian and American Trotter; syn. *Kentucky Saddle Horse, Five-gaited Horse, Saddlebred* — *13*:130-1, *14*:275-6

American Spotted (U.S.A.); l.; colour type; *cf.* Appaloosa and Colorado Ranger

American Trotter (U.S.A.); l.; orig. in early 19th c. from Thoroughbred, Hackney, Morgan, etc.; syn. *American Trotting Horse, Standardbred*; orig. (with Russian Trotter) of Russo-American Trotter — *6*:281, *13*:130-1

Anatolian Native (Turkey); py; Turk. *Anadolu Yerli*; var: Canik — *8*:7-8, *13*:128

Andalusian (Spain); l.; orig. from Arab and Barb; Sp. *Andaluz*; syn. *Andalusian-Barb, Andalusian-Lusitanian, Andalusian-Valenzuela, Bético, Guzman, Spanish*; vars: Cartuja, Córdoba, Extremadura, Marismeña, Ronda, Seville; orig. of Criollo and mustang (America) — *2*:194, 305, *12*:124, *13*:9

ANGLO-ARAB; l.; Arab × Thoroughbred 1st or later cross, or breed orig. from this cross, *e.g.* Gidran (Hungary), Limousin (France), etc.; syn. *Anglo-Arabian*

Anglo-Don (U.S.S.R.); l.; orig. from Thoroughbred × Don

Anglo-Norman: see Norman Coach Horse

Anglo-Teke (Turkmenistan, U.S.S.R.); l.; orig. from Thoroughbred × Akhal-Teke; Russ. *Anglo-tekinskiĭ* — *7*:209-10

Annamese Pony (Indo-China); South-East Asia pony type; Fr. *Annamite*; orig. (with Arab or Thoroughbred) of Indo-Chinese — *7*:207

Appaloosa (Oregon, U.S.A.); l.; colour type (spotted rump); syn. *Palouse*. [from Palouse R.] — *14*:128

Arab; l.; original strains inc. Keheilan, Maneghi, Saglawi; not *Arabian*; see also Egyptian, Syrian, Turkish Arab, Persian Arab — *1*:79, 157-8, *6*:92, 189, *14*:201, *17*:15

Arab-Barb (W. Africa): see West African Barb

Aragon (Spain); l.tr.; orig. from Breton, Percheron, and Ardennes, × local; Sp. *Aragonés* — *2*:305, *13*:122-3, *17*:9, *18*:363

Ardennes (Belgium); h.; lighter (mountain) var. of Belgian; Fr. *Ardennais*; orig. of Russian and Swedish Ardennes

Argentine Criollo; l.; Criollo type, revived 1875-90; syn. *Argentine Landrace, Criollo* — *2*:193, *8*:105-6, *11*:11

asil (Middle East) = purebred (Arab)

Asturian Pony (N. Spain); Cantabrian pony type — *18*:145

Augeron (France); h. — *3*:238

Australian Waler (New South Wales); l. — *8*:214

Auxois (Burgundy, France); h.; orig. since 1913 from French heavy breeds (esp. Ardennes and Percheron) × local (descended from Morvan crosses) — *3*:236, *7*:203-4

Avelignese: see Hafling

Bábolna (Hungary); stud breeding Arab and Lipitsa — *3*:245-6

Bagnal (Argentina); feral; Sp. orig. like mustang (U.S.A.) and Criollo

Bahia (N. Mato Grosso, Brazil); l.; sim. to Mimoso; usu. grey — *17*:326

Bahr-el-Ghazal (Chad): var. of Dongola; syn. *Kréda, Ganastou*

Baikal: see Transbaikal

Baixo-Amazona: see Lower Amazon

Bakhtiari: var. of Persian Arab

Baladi: see Egyptian

Balkan Pony: see Bosnian Pony

Baloch: see Baluchi

Baltic Trotter (Baltic States, U.S.S.R.); l.; Ger. *Panjepferd im Trabertyp*; orig. from trotter × konik — *13*:71

Baluchi (Baluchistan, India); l.; syn. *Baloch* — *11*:13

Banamba: see Bélédougou

Bandiagara (Niger bend, Fr. W. Africa): local var. of Dongola-Barb orig.; syn. *Gondo* — *17*:113-4

Barb (Fr. N. Africa); l.; orig. of West African Barb; not *Barbary, Berber* — *5*:5, *8*:1-2, 10, *13*:181, *15*:92

Barranca: see Navarre Pony

Bashkir (U.S.S.R.); py.d.; Mongolian type — *9*:98-9, 201

Basque (Vascongadas, N. Spain); Cantabrian pony type; Sp. *Vasco*

Basuto Pony (Basutoland, S. Africa); orig. from Cape Horse · at end of 18th and early 19th c.; disappearing — *3*:10, *7*:384

Batak Pony (Sumatra, Indonesia); South-East Asia pony type; syn. *Deli*; not *Battak*

Beetewk: see *Bityug*

Bélédougou (Sudan): var. of West African Barb; syn. *Banamba* — *17*:113-4

Belgian; h.; light (Ardennes), and heavy (Brabançon) vars.; orig. of Rhenish (Germany) and Trait du Nord (France) — *5*:8, *12*:65

Berber: see Barb

Berry (France); h.; Fr. *Berrichon*

Bessarabian: see Bulgarian Colonist, German Bessarabian — *2*:302, *8*:334

Betic, Bético: see Andalusian. [Latin *Betica* = Andalusia]

Bhimthadi: see Deccani

Bhutia Pony (sub-Himalayas, India); syn. *Bhutan pony* — *11*:13

Bigourdan: see Tarbes

Biłgoraj Konik: var. of Konik — *11*:12

Billie: see American Quarter Horse

Bimanese: var. of Sumbawa Pony

[Bityug] (Russia); h.; sim. to Voronezh; orig. from heavy trotter × local (19th c.); not *Beetewk*

blood horse: see thoroughbred

Bobo (N. Ivory Coast, Fr.W. Africa); py; ? degenerate Barb; syn. *Bobodi* — *17*:113-4

Boer: see Cape

Bolivian Pony: dwarf var. of Criollo; syn. *Sunicho* — *13*:71-2

Bosnian Pony (Yugoslavia); brown or dun; improved by Arab; syn. *Balkan, Bosniak, Bosnian Mountain* — *7*:99, *8*:335-6, *10*:8

Boulonnais (N. France); h.; usu. grey. [Boulogne district] — *3*:238, *7*:100, *12*:64-5

Bourbonnais (C. France)

Brabançon; h.; heavy var. of Belgian; syn. *Brabant*; orig. of Rhenish (Germany) and Trait du Nord (France) — *9*:296, *15*:156-7

Brandenburg (Germany); l.; Ger. *Brandenburger Warmblut* — *10*:209-10

Brazilian: see Crioulo, Mangalarga, Campolino

Breton (Brittany, France) — *13*:186, *17*:326-7, *3*:238, *12*:64-5

vars: 1. Draft; h.; Fr. *Trait breton*

2. Post-horse; l.tr.; orig. *c.* 1850 from Hackney × local; Fr. *Postier breton*; syn. *Breton Cob, Norfolk Breton*

3. Small mountain draft; l.tr.

Breton Saddle Horse: see Corlay

bronco (U.S.A.); unruly type of Western Pony. [Sp. *bronco* = rough, coarse] — *14*:128

broomtail (U.S.A.); feral; remnants of mustang — *14*:128

brumbie (Australia); l.; feral

Budennyĭ (U.S.S.R.); l.; orig. by S.M. Budennyĭ in 20th c. from Don, Thoroughbred, *et al.* — *17*:14-15, 113

Bulgarian; py; vars: Deli-Orman, Dolny-Iskar, Karakachan, Rila Mountain, Stara Planina — *5*:256-7, *8*:13, *10*:214

Bulgarian Colonist (S. Bessarabia); py; sim. to Dobruja; orig. from Bulgarian, Moldavian, and Ukrainian; syn. *Bessarabian* — *2*:302, *8*:334

Bulgarian Mountain: inc. Karakachan, Rila Mountain, Stara Planina — *5*:256-7

Burgdorf (Switzerland); h.; orig. from Ardennes × Jura — *7*:207

Burguete: see Navarre Pony

Burmese Pony: see Shan Pony

Buryat, Buryat-Mongolian: see Transbaikal

Camargue (S. France); py; Fr. *Camarguais*

Cambodian (Indo-China); South-East Asia pony type, sim. to Siamese and Annamese; Fr. *Cambodgien* — *18*:246-7

Campolino (Minas Gerais, Brazil); l.(tr.); orig. from native horses (Crioulo) by C. Campolino in mid 19th c. — *17*:326

Canadian (Quebec, Canada); l.tr.; orig. in 20th c. from old French Canadian — *14*:7, *16*:11-12, *19*:153

Canadian Hunter; l.

[Canadian Pacer]: var. of French Canadian with blood of Narragansett Pacer

Canary Island Pony; Sp. *Jaca Canaria*

Canik (N.E. Turkey): local var. of Anatolian Native; not *Çenik, Cenik*

Cantabrian Pony (N. Spain): inc. Asturian, Liébana, and Basque; Sp. *Cantabrico*

[Cape] (S. Africa); l.; orig. from Oriental (chiefly Arab) imported in 18th, and Thoroughbred in early 19th c.; syn. *Boer, South African*; var: Hantam; orig. of Basuto Pony and Namaqua Pony — *2*:303-4

Carpathian Pony: see Goral, Hutsul

Cartuja: var. of Andalusian; Sp. *Cartujano* — *2*:305

Castilian (Spain); local type; Sp. *Castellano, de Castilla*

Catalan (Spain); l.tr.; orig. from Breton × local; syn. *Catalonian* — *2*:305, *13*:122, *17*:9

Cayuse (U.S.A.): var. of Indian Pony — *14*:128

Celebes: see Macassar

CELTIC PONY; inc. Connemara, Faroes, Iceland, Shetland, and Western Isles ponies

Cenik: see Canik

Chapman Horse: see Cleveland Bay

Charentais (W. France); l. — *3*:238

Charollais (C. France); l.; orig. from Norman × local; not *Charolais* — *3*:238

Chienchang: see South China Pony

Chilean (Chile); l.; Criollo type; 1st imported 1541, studbook 1893, revived 1913; Sp. *Chileno* — *11*:212-3, *13*:186-7, *19*:158

Chinese: see Ili, Mongolian, Nanfan, Sikong, South China Pony *9*:98
Chola: var. of Peruvian Criollo
Chosen: see Korean
Chukorova: see Çukurova
Cleveland Bay (Yorkshire, England); l.tr.; syn. *Chapman Horse*; see also Yorkshire Coach Horse *8*:335, 337, *11*:145-6
Clydesdale (Scotland); h.; sim. to Shire; usu. bay, brown, or black, with white on face and feet; orig. from Great Horse; orig. of Vladimir Draft (U.S.S.R.) *3*:126, *7*:98, *9*:292, 297-8, *18*:125-6
cob (Great Britain); l.; any heavy-weight, short-legged, riding horse (hack); syn. *riding cob*; see also Norman Cob, Welsh Cob
"COLD-BLOOD" (Germany) = heavy draft; inc. Noric, Rhenish, and Schleswig; Ger. *Kaltblut* *1*:78, *8*:10, *13*:8, *14*:201
Cold Deck: see American Quarter Horse
Colombian Criollo; Criollo type *12*:116-7
Colorado Ranger (U.S.A.); l.; white with black spots *11*:11, *14*:128
[Conestoga] (U.S.A.); l.
Connemara Pony (W. Ireland); orig. from Irish Hobby *8*:14
Copper Bottom: see American Quarter Horse
Córdoba: var. of Andalusian; Sp. *Cordobés* *2*:305
Corean: see Korean
Corlay (Brittany, France); l.; orig. in 19th c. from Thoroughbred (and Arab) × local; syn. *Breton saddle horse*
Corsican; py; Fr. *Corse*
[Cossack] (Russia); orig. in 18th c. from Nogai × Mongolian and Kalmyk; syn. *Old Don*; orig. of Don
Costeña: var. of Peruvian Criollo. [= coastal]
Cotocoli: see Koto-Koli
cow pony (U.S.A.); type of Western Pony; orig. from mustang, etc. *14*:128
Cremona: see Po; It. *Cremonese*
CRIOLLO (Spanish America); l. or py; Sp. (Andalusian) orig. from 16th c. on; sim. to (or =) Crioulo (Brazil); inc. Argentine Criollo, Bolivian Pony, Chilean, Colombian Criollo, Mexican Pony, Peruvian Criollo, Venezuelan Criollo. [= native] *17*:115
CRIOULO (Brazil, esp. Rio Grande do Sul); py; sim. to (or =) Criollo; orig. from Alter (Port. var. of Andalusian) from 16th c. on; vars: Lower Amazon, Northeastern, Rio Grande do Sul; not *Crióulo*. [= native] *11*:212, *17*:326
Çukurova (S. Turkey); l.; orig. from Anatolian Native, Arab, and "Circassian"; not *Chukorova, Cukorova* *8*:7-8, *13*:128

Dales Pony (N.E. England); sim. to Fell Pony but larger, owing to draft-horse blood
Danish: see Jutland
Daror: see Mijertinian

Dartmoor Pony (S.W. England)
[Davert] (Münster, Westphalia, Germany); py; feral; sim. to Münsterland; syn. *Davertnickel* — *16*:100
Deccani (Bombay, India); py; syn. *Bhimthadi*; nearly extinct — *6*:92
Deli: see Batak
Deliboz (W. Azerbaijan, U.S.S.R.); l.-py. [name of stud] — *18*:147
Deli-Orman (N. Bulgaria): var. of Bulgarian; not *Deliorman* — *5*:256, *8*:13, *10*:211
demi-sang: see halfbred
[Dhanni] (Punjab, India); l.; not *Dhunni*
Djerma (Middle Niger, Fr. W. Africa); l.; dark; orig. from Barb × Dongola — *17*:113-4
Dobruja (Romania); py; var. of Romanian, sim. to Moldavian but smaller; Rom. *Dobrogea*; not *Dobrudja* — *8*:334
Dole (E. Norway); l.tr.; 96 % brown, bay, black or chestnut; orig. from Frederiksborg × local in 18th c.; syn. *Eastland, Gudbrandsdal, Østland*; orig. of North Swedish — *2*:194, *3*:127-8, *10*:73, *14*:69-70, 205-6, *15*:10
Dolny-Iskar: var. of Bulgarian — *5*:256-7
Don (U.S.S.R.); l.; orig. from Cossack (= Old Don) improved in 19th c. successively with Persian and Karabakh, Arab and Russian Saddle, and Thoroughbred; syn. *Trans-Don*; orig. (with Thoroughbred) of Anglo-Don — *4*:143-4, *9*:199-200, *11*:81
Dongola (A.-E. Sudan); reddish bay, often with white face and feet; l.; orig. of West African Dongola; syn. *Dongalawi, Dongolaw* — *18*:149
Dor: var. of Somali Pony
Dutch Draft (Netherlands); h.; sim. to Belgian; Du. *Nederlands Trekpaard*; syn. *Holland Heavy, Netherlands Draft, Zeeland* — *16*:94
Džabe, Dzhabe: see Jabe

Eastern: see Oriental
East Friesian (Germany); l.tr.; sim. to Oldenburg; Ger. *Ostfriesisches Warmblut*; syn. *East Friesland* — *5*:5, *7*:294, *8*:106, *12*:64
Eastland: see Dole; Nor. *Østland*
East Prussian; l.; orig. from Thoroughbred and Trakehnen × local (Sweyki) (grading 1787-1914, selection 1918 on); Ger. *Ostpreussisches Warmblut Trakehner Abstammung* (= *East Prussian "warm-blood" of Trakehnen descent*) — *5*:5, 256, *8*:12, 337, *11*:11-12, 145
Egyptian; l.; Arab type; syn. *Baladi* — *8*:215, *12*:113-4
Einsiedeln: var. of Swiss Halfblood; orig. from Anglo-Norman; syn. *Schwyz* — *3*:244, *7*:207
English Cart-horse: see Shire
English Race-horse, English Thoroughbred: see Thoroughbred
[Erlenbach]: var. of Swiss Halfblood; orig. from Mecklenburg × Danish; syn. *Simmental* — *3*:244
Estonian; py; Northern type; sim. to Žemaitukai; syn. *Estonian Klepper*; orig. (with Hackney) of Tori; not *Esthonian* — *3*:244-5, *5*:124, *17*:217

Exmoor Pony (S.W. England); mealy nose, no white markings

Extremadura: var. of Andalusian; Sp. *Extremeño* — *2*:305

Faeroes Pony; sim. to Iceland Pony; not *Faroe* — *18*:16

[Feldmoching] (Bavaria, Germany); py; Ger. *Feldmochinger Moospferd*

Fell Pony (N.W. England); sim. to Dales Pony (but smaller) and to [Galloway Pony] — *14*:68

Filipino: see Philippine Pony

Finnish; tr.; Northern type; usu. chestnut, sometimes brown; heavy and light vars. — *3*:3-4, *11*:12, *12*:58, *16*:204-5

Five-gaited Horse: see American Saddle Horse

Fjord (W. Norway); py; dun (90 %); syn. *Nordfjord, Norwegian Dun, Norwegian Pony, Vestland, Westland, West Norway, West Norwegian*; not *Fiord* — *2*:90, 194, *3*:127-8, *10*:73, *13*:121, *14*:205

Flanders: see Flemish

[Flemish]; h.; orig. of Belgian, Dutch, etc.; *cf.* Great Horse (Britain); syn. *Flanders*

Fouta (Senegal, Fr. W. Africa); l.; orig. from Hodh × M'Bayar; syn. *Foutanké* — *17*:114-5

Franches Montagnes: see Jura

Frederiksborg (Denmark); l.tr.; usu. chestnut; orig. in late 19th c. from stallions from Royal F. Stud (flourished in 17th and 18th c. with Andalusian, Arab and Thoroughbred) × local Zealand mares; not *Fredriksborg* — *7*:293, *12*:59

Freiberg: see Jura

[French Canadian] (Quebec, Canada); l.tr.; orig. in late 17th and early 18th c. from Arab, Breton, Norman; revived in 20th c. as Canadian (*q.v.*); var: Canadian Pacer — *16*:11-12

French Coach (U.S.A.) = demi-sang

[Frencher] (Canada): Thoroughbred × French Canadian, 1st cross

French Trotter (Normandy); l.; orig. in 20th c. from Norman Coach Horse; syn. *Norman Trotter*

Friesian (Germany): see East Friesian

Friesian (Netherlands); l.tr.; not *Fresian, Frisian* — *16*:94

Fulani: see West African Dongola

Furioso-Northstar (Hungary and Romania); strain of English Halfbred; orig. from Thoroughbred stallions 'Furioso' (bought 1841) and 'North Star' (bought 1852) — *5*:386, *8*:13, 334, *12*:124-5

Gaju: see Gayoe

Galician Pony (N.W. Spain); Sp. *Jaca gallega* — *2*:305

Galla (Ethiopia); py-l.; syn. *Abyssinian, Abyssinian-Galla, Yellow* — *5*:2, *7*:209, *8*:336-7

[Galloway Pony] (S.W. Scotland); sim. to Fell Pony, Garron

Ganastou: see Bahr-el-Ghazal

Garron (N.W. Scotland): mainland var. of Highland Pony; not *Garran*. [Gaelic *gearran* = gelding, work-horse] — *5*:373

Gayoe Pony (Sumatra, Indonesia); South-East Asia pony type; Du. *Gaju*

Gelderland (Netherlands); l.tr.; orig. from Oldenburg and Anglo-Norman; sim. to Groningen, but lighter; not *Guelderland, Guelders* — *16*:94, *18*:365-6

German Bessarabian (Bessarabia); l.; black; mixed orig.; syn. *German Colonist*

German Coach (U.S.A.); inc. Hanover and Oldenburg

Gidran (S.E. Europe); l.; strain of Anglo-Arab. [name of foundation stallion] — *5*:121, *8*:13, 14

Gondo: see Bandiagara

Goral (W. Carpathians); py; konik type — *10*:139

Gotland Pony (Sweden); Swed. *Skogsruss*

Graditz (Saxony): German Thoroughbred stud — *7*:7, *10*:81-2

[Great Horse] (Britain); sim. to Flemish; syn. *Old English Black* (or *War*) *Horse*; orig. of Clydesdale and Shire

Greek Native; py; var: Pindus; see also Skyros Pony — *3*:24

Groningen (Netherlands); l.tr.; orig. from Oldenburg; sim. to Gelderland but heavier — *16*:94, *18*:365-6

Gudbrandsdal: see Dole

Guelderland, Guelders: see Gelderland

Guzman: see Andalusian

hack (Great Britain); l.; any horse suitable for riding. [= hackney]

Hackney (England); l.tr.; syn. *Norfolk, Norfolk Hackney, Norfolk Trotter, Yorkshire Hackney, Yorkshire Trotter*. [hackney = a horse for ordinary riding or driving] — *11*:145-6

Hackney Pony (England); orig. from Hackney

Hafling (Austria-Italy); py; light Noric and Arab blood; Ger. *Haflinger*, It. *Avelignese*; syn. *Hafling Mountain Pony* — *2*:92, *8*:102, *9*:299, *13*:187, *15*:92, *17*:15

Hailar (Manchuria); l.; var. of Mongolian Pony, improved by Russian — *16*:99

halfblood: see halfbred; Ger. *Halbblut*

HALFBRED; orig. from thoroughbred × native or draft; syn. *halfblood, "warm-blood"* (2); Ger. *Halbblut*, Fr. *demi-sang*

Hanover (Germany); l.; orig. (late 18th and early 19th c.) from Thoroughbred, Mecklenburg, *et al.* × local; Ger. *Hannoveraner, Hannoversches Warmblut*; not *Hannover, Hanoverian* — *4*:160, *5*:8, *10*:81, 207, *11*:12, 145

Hantam: var. of Cape Horse

Hausa (N. Nigeria and Fr. Niger): var. of West African Dongola — *17*:113-4

Hebridean Pony: see Western Isles Pony

Herati (Afghanistan); l.

Highland Pony (N.W. Scotland); vars: Garron (mainland) and Western Isles Pony — *5*:373

Hinis (N.E. Anatolia): local var. of Anatolian Native with short fore-legs; Turk. *Hınısın Kolu Kısası* (= *Hinis short arm*)

Hirzai (Baluchistan, India); l. — *11*:13

Hobby: see Irish Hobby

Hodh (Fr. Sudan-Mauritania): var. of West African Barb — *17*:113-4

Hokkaido Pony (Japan) — *4*:400

Holland Heavy: see Dutch Draft

Holstein (Germany); l.; inc. Holstein Marsh and Schleswig-Holstein; Yorkshire Coach Horse blood; Ger. *Holsteiner Warmblut* — *3*:124, *5*:8, *7*:6

Hucul: see Hutsul

Hungarian Native; l.; Mongolian and Oriental orig.; orig. (with imported draft) of Mur Island and Pinkafeld — *3*:124-5, *7*:6

hunter (Great Britain); l.; any horse suitable for riding to hounds (fox-hunting), usu. heavy Thoroughbred or Thoroughbred cross — *4*:282

Hutsul (E. Carpathians); py; konik type; syn. *Carpathian Pony*; Pol. *Hucul*, Rom. *Huţul*, Ger. *Huzul*; not *Hutzul* — *6*:187, *8*:219-20, *10*:139

Huzul: see Hutsul

[Ialomiţa] (Walachia, Romania): var. of Transylvanian; not *Jalomitza*

Iceland Pony; usu. chestnut — *6*:92, *12*:171, *13*:122

Ili (Sinkiang, China); l.; Mongolian type; orig. from Wusun (*not* Arab × Mongolian); not *Yilee* — *10*:211-2, *16*:99

Indian Pony (N. America); orig. from mustang; var: Cayuse — *14*:128

Indo-Chinese (Cochin China): Arab or Thoroughbred × Annamese

Iomut (Turkmenistan, U.S.S.R.); l.; sim. to Akhal-Teke but smaller; not *Iomud*, *Jomud*, *Yomud* — *3*:481, *7*:208, *15*:154-5

Irish Draught Horse; h.; orig. from Irish Hobby and Great Horse; syn. *Irish Cart-horse*

[Irish Hobby]; orig. of Connemara Pony and Irish Draught Horse

Irish Hunter; l.; orig. from Irish Thoroughbred × Irish Draught Horse

Irish Thoroughbred: strain of Thoroughbred

Isabella: coat colour — yellow to golden with white tail and mane; *cf.* Palomino

Ivanovo Clydesdale: see Vladimir Clydesdale

Jabe (W. Kazakhstan): var. of Kazakh; Russ. *Džabe*; syn. *Western Kazakh* — *12*:122-3

Jakut: see Yakut

Jalomitza: see Ialomiţa

Japanese; py; mixed type; see also Hokkaido Pony, Nambu — *13*:127, *16*:92
Jomud, Jomut: see Iomut
[Jumla Pony] (United Provinces, India)
Jura (Switzerland); l.tr.; orig. from local, improved in late 19th and early 20th c. by imported coach (esp. Anglo-Norman) and draft horses (esp. Ardennes); syn. *Franches Montagnes, Freiberg* — *4*:401-2, *7*:207, *8*:335, 336, *10*:143, *13*:130, *14*:133-4, *16*:11
Jutland (Denmark); h.; usu. chestnut; improved by Shire stallion imported 1862; Dan. *Jydsk*; syn. *Danish*; orig. (with Suffolk) of Schleswig — *7*:293, *12*:59

Kabarda (North Caucasus, U.S.S.R.); l.; sim. to Karachaev; Russ. *Kabardinskiĭ* — *9*:291, 294, *11*:82, *16*:296
kadish (Middle East) = impure (Arab)
Kalmyk (Astrakhan and Stalingrad provinces, U.S.S.R.); l.; Russ. *Kalmyckiĭ*
Kaltblut: see "cold-blood"
Karabagh: see Karabakh
Karabair (Uzbekistan and N. Tajikistan, U.S.S.R.); l.; not *Kara-Bair* — *7*:209, *13*:9, *15*:155
Karabakh (Azerbaijan); l.; not *Karabagh, Karabah* — *11*:81, *19*:32
Karachaev (North Caucasus, U.S.S.R.); l.; sim. to Kabarda (? var. of); not *Karachayevsk* — *9*:294-5, *11*:82
Karakachan: var. of Bulgarian; Bulg. *Karakačanski*; not *Karakatschan.* [(Romanian) nomad] — *10*:211, *12*:124
Karelian; North Russian Pony type — *5*:123
Kathi (N. Bombay, India); l.; syn. *Kathiawari* — *6*:92, *11*:13, 139
Kazakh (U.S.S.R.); py; Mongolian type; syn. *Kirgiz*; vars: Adaev, East Kazakh, Jabe, Kirgiz Mountain; not *Kazah, Kazak* — *3*:7-8, *9*:294, *12*:122-3, *14*:68
Keheilan: original strain of Arab; not *Khiolan, Khiolawi, Kuhailan.* [= purebred] — *1*:79, 157, *3*:343, *6*:92
Kentucky Saddle Horse: see American Saddle Horse
Kentucky Whip: see American Quarter Horse
Khiolan, Khiolawi: see Keheilan
Kirdi Pony (S.W. Chad, Fr. Equatorial Africa); syn. *Lakka, Logone, Mbai, Pagan, Sara.* [*kirdi* = pagan]
Kirgiz: see Kazakh
Kirgiz Mountain: var. of Kazakh; not *Kirghiz*
Kisbér (Hungary): government stud breeding Thoroughbred and English Halfbred; not *Kis-Ber* — *3*:245, *5*:386, *8*:12
Kladrub (Czechoslovakia); l.; Spanish-Neapolitan orig.; [black] (till 1918) and white vars. [name of stud, founded 1562] — *8*:101
Klepper: see Estonian. [Ger. = riding horse]
KONIK (Poland-U.S.S.R.); py; inc. Konik (Poland), Goral and Hutsul (Carpathians), Polesian, and Žemaitukai (Lithuania)

Konik (Poland); py; Ger. *Panje*; var: Biłgoraj Konik. [= small horse] *8*:219-20, *10*:139, *11*:12, *12*:123-4

Kordofani (Darfur, A.-E. Sudan); l.-py; usu. bay or chestnut

Korean; py; Jap. *Chosen*; not *Corean* *3*:358, *8*:341

Koto-Koli Pony (N. Dahomey and Togoland, W. Africa); syn. *Cotocoli, Togo pony* *17*:113-4

Kréda: see Bahr-el-Ghazal

[Krk Island Pony] (Yugoslavia); It. *Veglia*

Kuhailan: see Keheilan

Kurdi (Kurdistan); l.-py

Kustanaĭ (N.W. Kazakhstan, U.S.S.R.); l.; orig. from Kazakh improved by Don and Russian Saddle Horse (late 19th and early 20th c.) *18*:147-8

Kuznetsk (W. Siberia); l.; Siberian pony type improved by trotter, saddle, and draft breeds *14*:135-6

La Barranca: see Navarre Pony

Laka, Lakka: see Kirdi

Landes (S.W. France); py; Fr. *Landais*

Lebaniego: see Liébana

Liébana (Santander, N. Spain); Cantabrian pony type; Sp. *Lebaniego*

Limousin (C. France); l.; Anglo-Arab

Lipitsa (S.E. Europe); l.; usu. grey; orig. from Spanish and Arab at Lipitsa stud near Trieste (founded 1580); Serbo-Croat, *Lipica*, Rom. *Lipiţa*, It. *Lipizza*, Ger. *Lippiza*; not *Lipitza* *3*:126, 128, 354, *4*:8

Liptako: see Yagha

Lithuanian: see Žemaitukai

Liukiu: see Nambu

[Lofoten] (Norway); py; sim. to Lyngen; syn. *Nordland, Northland* *13*:71

Logone: see Kirdi

Lokai (Tajikistan, U.S.S.R.); l. *7*:286, *15*:153-4

Losa (Burgos, Spain); py; Sp. *Losino*

Lower Amazon (Brazil): var. of Crioulo; Port. *Baixo-Amazona*

Lyngen (N. Norway); py; sim. to Lofoten; Nor. *Lyngshest* *13*:71

Maaneghi: see Maneghi

Macassar Pony (Celebes, Indonesia); South-East Asia pony type *7*:1

Macedonian Pony (S. Yugoslavia); sim. to Bosnian Pony; obs. syn. *Vardarska* *8*:333

Maine (N.W. France); h.; orig. from Percheron; syn. *Mayenne* *3*:238

Makra (Sind, India); l.; colour type (dun)

Malakan (N.E. Turkey); l.-h.; orig. from native Russian, Orlov, Bityug, etc.; not *Molokan*. [*cf.* Malakan cattle] *8*:7-8

Mallani: see Marwari

Maneghi: strain of Arab; not *Maaneghi, Man'aqi, Manegi, Muniki* — *3*:343, *4*:157-8

Mangalarga (São Paulo, Brazil); l.; orig. in mid 19th c. from Alter (Port.) and Brazilian native (Crioulo). [= wide sleeved] — *12*:64, *15*:219, *17*:326

Manipuri Pony (Assam, India); South-East Asia pony type — *11*:13

Maremma (Latium and Tuscany, Italy); l.; It. *Maremmano* — *3*:241, *18*:361-2

Marismeño (marshes of lower R. Guadalquivir, Spain): var. of Andalusian; not *Marismenna*. [*marisma* = marsh] — *2*:305

Marwari (Rajputana, India); l.; syn. *Mallani* — *6*:92, *11*:13

Mayenne: see Maine; Fr. *Mayennais*

Mazari (Afghanistan); l.

Mbai, M'Baye: see Kirdi

M'Bayar (Baol, Senegal, Fr. W. Africa); py; bay or chestnut; ? degenerate Barb; orig. (with Hodh) of Fouta. [M'Bayar is adj. from Baol] — *17*:113-4, 114

Mecklenburg (Germany); l.; Ger. *Mecklenburger Warmblut* — *9*:202, *14*:202

Mexican Pony; Criollo type

Mezen; North Russian Pony type — *9*:201, 294

Midilli: see Mytilene Pony

Mijertinian: var. of Somali Pony; syn. *Daror*

Mimoso (N. Mato Grosso, Brazil); l.; sim. to Bahia; usu. grey; Port. *Mimoseano* — *17*:326

Mingrelian (W. Georgia, U.S.S.R.) — *17*:217

Mira Pony (Portugal) — *15*:231

Mirinsulaner: see *Murinsulaner*

Moldavian (Romania); l.-py; chief var. of Romanian — *8*:13, 334

Molokan: see Malakan

MONGOLIAN; inc. Bashkir, Ili, Mongolian pony, Siberian ponies; sim. to Northern type; syn. *Tatar* — *5*:123, *9*:98-9

Mongolian Pony (Sinkiang, Mongolia, Manchuria, and N. China); vars: Hailar, Sanpaitze, Sining, Wuchuminsin — *5*:123-4, *6*:276, *9*:296, *10*:211-2

Mongolian tarpan: see Przevalskii's horse

Moospferd: see Feldmoching

Morgan (Vermont, U.S.A.); l.; sim. to American Trotter. [from Justin Morgan, a sire of Thoroughbred orig. born in 1793] — *12*:115

Morochuca: var. of Peruvian Criollo; mountain py

[Morvan] (France); orig. of Auxois; Fr. *Morvandelle* — *3*:236, *7*:203

Mossi (Niger bend, Fr. W. Africa): local var. of Dongola-Barb orig. — *17*:113-4

M'Par (Cayor, Senegal, Fr. W. Africa); py; bay or chestnut; ? degenerate Barb; syn. *Cayor* — *17*:113-4, 114-5

mulassière (France); type; = mule producer

Muniki: see Maneghi

[Münsterland] (Westphalia, Germany); py; feral; sim. to Davert — *16*:100

Muraköz: see Mur Island

Murge (Apulia, Italy); l.; It. *Murgese* *13*:126
Mur Island (Yugoslavia-Hungary); h.; *cf.* Pinkafeld; orig. from Pinzgau, Percheron, and Ardennes, × Hungarian Native; Hung. *Muraköz*, Ger. *Murinsulaner* *3*:245
Murinsulaner: see Mur Island; not *Mirinsulaner*
mustang (U.S.A.); feral; Spanish orig.; orig. of cow pony, Indian pony; remnants = broomtail. [Sp. *mesteño* = stray]
Muzakiya, Muzekja: see Myzeqeja
Mytilene Pony (N.W. Anatolia); local var.; Turk. *Midilli*
Myzeqeja: var. of Albanian; not *Muzakiya, Muzekja, Mysekeja, Myzeqe* *9*:95

Nagai: see Nogai
[Namaqua Pony] (S. Africa); sim. to Basuto Pony; orig. from Cape Horse in early 19th c. *3*:10
Nambu (Ryukyu Is.); py; not *Liukiu, Nanbu* *4*:400
Nanfan (Tibetan Plateau); py; syn. *Tibetan pony, Southern Barbarian* *16*:99
[Narragansett Pacer] (Rhode Island, U.S.A.)
Narym (Tomsk, Siberia); Siberian pony type *14*:135
Navarre (France): see Tarbes
Navarre Pony (N. Spain): Sp. *Jaca Navarra*; syn. *Burguete, de La Barranca* *17*:9
Nefza Pony (Tunisia) *15*:81
Netherlands Draft: see Dutch Draft
New Forest Pony (England)
Nigerian: see West African Dongola
Nivernais (C. France); h.; orig. from Percheron *3*:238
[Nogai] (S. Ukraine); orig. of Cossack (= Old Don); not *Nagai, Nogay* *11*:81
Nogali: var. of Somali Pony
Nonius (S.E. Europe); l.; strain of Anglo-Norman; large (168 cm. and over) and small (167 cm. and under) vars. [name of foundation stallion born 1810] *3*:242, 244, *5*:122, *8*:13
Nordfjord: see Fjord
Nordkirchen Pony (Westphalia, Germany); semi-wild *5*:386-7
Nordland: see Lofoten
Norfolk-Breton: see Breton Post-horse
Norfolk, Norfolk Hackney, Norfolk Trotter: see Hackney
Noric (Austria); often tiger-spotted; light var: (or syn.) Oberland, heavy var: Pinzgau; Ger. *Noriker, Norisches Kaltblut*; not *Norik.* [*Noricum* — Roman province] *4*:5-6, 156, *8*:11, 101-2, *10*:142
Norman (Normandy, France); l.; orig. in 20th c. from Norman Coach Horse; Fr. *Normand*; syn. *Normandy* *3*:237
[Norman Coach Horse] (France); orig. (1806-60) from Hackney and Thoroughbred × native; orig. of Norman, Norman Cob, and French Trotter; Fr. *Carrossier normand*; syn. *Anglo-Norman, Normandy Carriage Horse* *3*:237

Norman Cob (France); l.tr.; orig. in 20th c. from Norman Coach Horse — *3*:237, *7*:296

Norman Trotter: see French Trotter

Northeastern (N.E. Brazil): var. of Crioulo; Port. *Nordestino*; syn. *Sertanejo* (= *inland*) — *15*:221, *17*:326

NORTHERN (N. Eurasia); orig. of Estonian, Finnish, North Russian Pony; sim. to konik type to the west and Mongolian type to the east — *5*:123, 124

Northland: see Lofoten; Nor. *Nordland*

North Russian Pony; Northern type; inc. Karelian, Mezen, Ob, Pechora, Tavda, Vyatka — *9*:200-1, 294

North Star: see Furioso-Northstar

North Swedish; l.tr.; orig. (1850-1900) from Døle (Norway) × local — *12*:7, *14*:129, 204-5, *16*:98-9

Norwegian Dun, Norwegian Pony: see Fjord

Ob (W. Siberia); North Russian Pony type; Russ. *Priobskiĭ*; syn. *Ostyak-Vogul* — *5*:122

Oberland (S.W. Bavaria, Germany); l.tr.; light var. of (or =) Noric; Ger. *Oberländer Kaltblut*. [= highland] — *7*:210, *8*:11, 101-2

Oirot: see Altai

Oldenburg (Germany); l.tr.; sim. to East Friesian; Ger. *Oldenburger Warmblut*; orig. of Gelderland and Groningen (Netherlands), Saxony "warm-blood" and Silesian "warm-blood" — *5*:5, *7*:294, *10*:142-3, *11*:11, *13*:71

Old English Black, Old English War Horse: see Great Horse

ORIENTAL; inc. Akhal-Teke, Arab, Barb, Persian Arab, Turkish Arab, Syrian, etc.; syn. *Eastern*

Orlov-Rostopchin: see Russian Saddle Horse

[Orlov Saddle Horse] (Russia); Anglo-Arab orig. in late 18th c.; orig. (with Rostopchin) of Russian Saddle Horse — *11*:81-2, *14*:68-9

Orlov Trotter: see Russian Trotter; not *Orloff*

Østland: see Døle

Ostyak-Vogul: see Ob

Padana: see Po

Pagan: see Kirdi

Palatinate: see Zweibrücken; Ger. *Pfalz*

Palomino (U.S.A.); l.; colour type (golden with white mane and tail, *i.e.* golden Isabella); not *Palamino* — *10*:10-11, *13*:128 *14*:136-7

Palouse: see Appaloosa

Panje: see Konik

Parsano: see Persano

Pechora; North Russian Pony type; Russ. *Pečorskiĭ* — *9*:200-1, 294

Pegu: see Shan Pony

Percheron (Normandy, France); h.; usu. grey, white, or black; orig. of Maine, Nivernais; vars. in Great Britain, U.S.A., U.S.S.R., etc. [from La Perche] — *9*:202, *10*:80-1, *12*:64-5, *15*:157

Persano (Italy); l.; state stud; predominantly Sardinian blood; not *Parsano* — *11*:81

Persian: see Persian Arab, Kurdi, Turkmen

Persian Arab; l.; vars: Bakhtiari (S.E.), Seistani (E.), Quashgai (S.) — *2*:190

Peruvian Criollo; vars: Chola, Costeña, Morochuca (mountain py)

Pfalz: see Palatinate

Philippine Pony; South-East Asia pony type; fawn; Sp. *Filipino* — *3*:238, *4*:153, *7*:296, *16*:100

Pindus; py; var. of Greek Native; syn. *Pindhos*

Pinkafeld (Austria-Hungary); h.; *cf.* Mur Island; orig. from Pinzgau, Percheron, and Ardennes, × Hungarian Native; Hung. *Pinkafö* — *3*:245

Pinto (Western U.S.A.); l.; colour type (piebald). [Sp. = painted] — *10*:143

Pinzgau (Austria): heavy var. of Noric — *5*:385-6, *8*:101-2

Plantation Walking Horse: see Tennessee Walking Horse

Po (Italy); h.; It. *Padana*; orig. from Belgian with Breton and Percheron blood; syn. *Cremona* — *3*:241, *13*:126

Polesian (White Russia); py; konik type; Russ. *Polesskiĭ*; not *Polesié, Polessian, Polessye* — *5*:120

Polish: see Konik

Polo Pony (England); l.; orig. from Arab and Thoroughbred × pony

Portuguese National; l. — *11*:210

[Posavina] (Yugoslavia); l.; syn. *Posavska, Sava*

Printer: see American Quarter Horse

Priob: see Ob

Przedswit (Poland); "warm-blood" stud — *10*:78

Przevalskii's horse (Central Asia) = *Equus caballus przewalskii* Pol.; not *Prejvalsky's, Prjevalsky's, Przewalsky's, Przewalskii's, Przhevalski's, Przrewalskii's*; syn. *Mongolian tarpan, taki* — *2*:95-6, *3*:124-5, *7*:98-9

p.s.c., p.s.i.: see Thoroughbred

Puno Pony (Chile); feral; Sp. orig. like Bagnal (Argentina) and Criollo

Puro sangue inglese, puro sangre de carrera: see Thoroughbred

Quarter Horse: see American Quarter Horse

Quashqai: var. of Persian Arab

Quatgani (Afghanistan); l.

Rastopchin: see Rostopchin

Rhenish (Germany); h.; orig. from Belgian; Ger. *Rheinisches Kaltblut* or *Rheinisch-deutsches Kaltblut*; syn. *Rhenish-Belgian, Rhenish-German, Rhineland*; strains in Saxony, Silesia and Westphalia — *1*:8, *5*:257, *6*:279, *10*:9, *12*:122, *13*:7, 8, *14*:203

Rhineland: see Rhenish
Rila Mountain: var. of Bulgarian *10*:211
Rio Grande do Sul (Brazil): chief var. of Crioulo, improved since late 19th c.
Romanian; l. or py; vars: Dobruja, Moldavian, Romanian Mountain, Transylvanian; not *Roumanian*, *Rumanian* *3*:243, *8*:13, 334
Romanian Mountain; py; var. of Romanian *8*:13
Rondo: see American Quarter Horse
Ronda: var. of Andalusian; Sp. *Rondeño* *2*:305
[Rostopchin] (Russia); l.; Anglo-Arab orig. in early 19th c.; orig. (with Orlov Saddle Horse) of Russian Saddle Horse; not *Rastopchin* *9*:296-7, *11*:81-2, *14*:68-9
Rottal (Bavaria, Germany); l.tr.; orig. from local improved by Norman, Thoroughbred and Cleveland Bay in 19th c.; Ger. *Rottaler Warmblut* *8*:10, 102
Russian Ardennes (U.S.S.R.); orig. (since mid 19th c.) from Ardennes × local; smaller *9*:201, *11*:146, *15*:157
Russian Clydesdale: see Vladimir Clydesdale
Russian Saddle Horse; l.; orig. (in late 19th c.) from Orlov Saddle Horse and Rostopchin; Russ. *Russkiĭ (krovnyĭ) verhovoĭ* [= Russian (thoroughbred) saddle horse]; syn. *Orlov-Rostopchin* *9*:296-7, *11*:81-2, *14*:68-9
Russian tarpan: see tarpan
Russian Trotter; l.; orig. (1775-1845) by Count Orlov at Khrenov stud from Arab, Thoroughbred, and Persian with Danish saddle, Dutch draft, Mecklenburg, and Hackney blood; syn. *Orlov Trotter*. [? now called Orlov Trotter again] *4*:401, *9*:203, 294, 297, 299, 300, *11*:11, *12*:180, *14*:201
Russo-American Trotter (U.S.S.R.); l.; orig. (1890-1926) from Russian and American Trotters. [? now called Russian Trotter] *9*:293, 294, 299, *11*:11, *14*:135
Ryukyu: see Nambu

Sächsisch: see Saxon
Saddlebred: see American Saddle Horse
Saglawi: strain of Arab; not *Saklawi*, *Seglawi* *3*:343, *5*:121
Sahel (Fr. Sudan): var. of West African Barb with Arab blood *17*:113-4
[St. Lawrence] (Canada); h.; orig. from French Canadian, Shire, Clydesdale, *et al.*
Saishu Island (Korea); not *Saishuh* *1*:230
Saklawi: see Saglawi
Salerno (Campania, Italy); l.; It. *Salernitano* *3*:241, *13*:126
Samogitian: see Žemaitukai
Sandalwood Pony (Sumba, Indonesia); South-East Asia pony type; Du. *Sandelhoutpaard*; syn. *Sumbanese*; not *Sandelwood* *19*:130-1
Sanpaitze (Outer Mongolia): var. of Mongolian; not *Sanpeitze* *16*:99
Sara: see Kirdi

Sardinian; l.-py; It. *Sarda*; orig. from Arab × native; syn. *Sardo-Arab* — *3*:241, *11*:81, *13*:129-30

Sardo-Arab: see Sardinian

Sava: see Posavina

Saxony "cold-blood": strain of Rhenish; Ger. *Sächsisches Kaltblut* — *6*:279

Saxony "warm-blood": strain of Oldenburg; Ger. *Sächsisches Warmblut* — *10*:207

Schlesisch: see Silesian

Schleswig (Germany); h.; usu. chestnut; orig. from Jutland × Suffolk — *11*:212, *13*:8

Schleswig-Holstein: see Holstein

Schweike: see Sweyki

Schwyz: see Einsiedeln

Seglawi: see Saglawi

Seistani: var. of Persian Arab; not *Sistan*

Senne (Westphalia, Germany); semi-wild — *9*:202

Seville: var. of Andalusian; Sp. *Sevillano* — *2*:305

Shahbad Pony (Bihar, India); not *Shahabad*

Shan Pony (Burma); South-East Asia pony type; syn. *Burmese Pony, Pegu*

Shetland Pony (Scotland); dwarf; syn. *Sheltie* — *4*:155, *9*:202, *13*:65

Shilo: see American Quarter Horse

Shire (England); h.; sim. to Clydesdale; black, brown, bay or grey; orig. from Great Horse; syn. *English Cart-horse*. [the Midland shires] — *7*:207, *19*:159

Siamese Pony; South-East Asia pony type

Siberian Pony; Mongolian type; inc. Altai, Kuznetsk (?), Narym, Transbaikal, Yakut — *5*:123-4

Sicilian; l.; orig. from Oriental × native — *8*:104, 334-5

Siebenburgisch: see Transylvanian

Sikong (China); py; ? orig. from Sining × South China — *16*:99

Silesian "cold-blood"; strain of Rhenish (1858 on); Ger. *Schlesisches Kaltblut* — *2*:301, *14*:7, 202

Silesian "warm-blood"; strain of Oldenburg-East Friesian; Ger. *Schlesisches Warmblut* — *2*:301, *11*:145

Simmental: see Erlenbach

Sining (Chinghai, China): var. of Mongolian with blood of Nanfan — *16*:99

Skogsruss: see Gotland Pony

Skyros Pony (Greece) — *5*:255

Smudisch: see Žemaitukai

Somali Pony (Somaliland); vars: Dor, Mijertinian, Nogali — *18*:13

Songhaï (Niger bend, Fr. W.Africa); l. to py; var. of West African Dongola with Barb blood; syn. *Sonraï* — *17*:113-4

South African: see Cape

South China Pony; South-East Asia pony type; syn. *Chienchang, Southwestern, Szechwan* — *10*:212, *16*:99

SOUTH-EAST ASIA PONY: inc. South China, Annamese, Cambodian, Siamese, Shan (Burma), Manipuri (Assam), Batak and Gayoe (Sumatra), Sandalwood, Sumbawa, Timor, Macassar (Celebes), Philippine; ? orig. rom Mongolian and Arab

Southern Barbarian: see Nanfan

Spanish: see Andalusian

Spanish ponies: see Galician, Cantabrian (Asturian, Liébana, and Basque), Losa, Navarre, and Canary Island

Spiti Pony (N.E. Punjab, India) *11*:13

Spotted: see American Spotted

Standardbred: see American Trotter

Stara Planina: var. of Bulgarian *10*:211

Steeldust: see American Quarter Horse

Strelets (S.E. Ukraine, U.S.S.R.); l.; orig. (late 19th c.) at Strelets State Stud from Arab × local *11*:81

Suffolk (England); h.; chestnut; syn. *Suffolk Punch* *15*:9

Sumba Pony, Sumbanese: see Sandalwood; Du. *Soemba*

Sumbawa Pony (Indonesia); South-East Asia pony type; Du. *Soembawa*; var: Bimanese

Sunicho: see Bolivian Pony

Swedish Ardennes; h.; orig. from Ardennes (imported since 1873) × local *12*:7, 8-9, *15*:159, *16*:89

[Sweyki] (East Prussia); *cf.* konik; Ger. *Schweike*; orig. (with Thoroughbred and Trakehnen) of East Prussian *6*:190

Swiss Halfblood (Switzerland); orig. from Anglo-Norman, Holstein, Württemberg, Hackney, etc. × local; vars: Einsiedeln, [Erlenbach] *13*:128-9

Syrian; l.; Arab type *12*:65

Szechwan: see South China Pony

taki: see Przevalskii's horse

Tanghan (Tibet); not *Tangan, Tangum* ?

Tarbes (Pyrenees, France); l.; orig. from Arab and Thoroughbred × Andalusian; Fr. *Tarbésane, Tarbeuse*; syn. *Bigourdan, Navarre*; not *Tarbenian* *12*:65

[tarpan] (E. Europe) = *Equus caballus gmelini* Ant.; syn. *Russian tarpan* *1*:80-1, 233, *2*:95-6, 194,

tarpan, Mongolian: see Przevalskii's horse

Tartar, Tatar: see Mongolian type

Tavda (W. Siberia); North Russian Pony type; Russ. *Tavdinskii* *18*:20

T.B.: see Thoroughbred

Tennessee Walking Horse (U.S.A.); l.; orig. in late 19th and early 20th c. from Morgan, American Saddle Horse, American Trotter, and Thoroughbred; syn. *Plantation Walking Horse, Tennessee Walker* *13*:128, *15*:91-2

Tersk (N. Caucasus, U.S.S.R.); l.; silver-grey; orig. at Tersk *17*:113, 114

stud in 19th c. from Strelets × Arab, Don, and Kabarda
THOROUGHBRED; inc. Arab, Barb, (English) Thoroughbred; Ger. *Vollblut*, Fr. *pur sang*; syn. *blood horse* — *8*:10

Thoroughbred (England); l.; orig. from Arab in 17th and early 18th c.; syn. *English Race-horse, English Thoroughbred, T.B.*; Ger. *Englisches Vollblut*, Fr. *Pur-sang anglais*, It. *Puro sangue inglese* or *p.s.i.*, Sp. *Puro sangre de carrera* or *p.s.c.*, Russ. *Angliĭskiĭ skakovyĭ čistokrovnyĭ* — Germany - *10*:9, 81-2, *11*:12-13; Italy - *16*:296; U.S.S.R. - *9*:297, *11*:81, *14*:202

Tibetan Pony; see Nanfan

Timor Pony (Indonesia); South-East Asia pony type — *11*:140

Togo pony: see Koto-Koli

Tori (Estonia); l.tr.; orig. at Tori stud (1896-1926) from Hackney × Estonian — *3*:244-5, *17*:217, *18*:366-7

Torodi (W. Niger Colony, Fr. W. Africa); py; ? degenerate Barb — *17*:113-4

Trait du Nord (N. France); h.; orig. from, or var. of, Belgian — *12*:64-5

Trakehnen; East Prussian stud of l. (largely Thoroughbred) horses; founded 1732; orig. (with Thoroughbred and Sweyki) of East Prusian — *1*:7, *4*:282, *7*:5-6, *8*:12, *10*:144, *12*:180

Transbaikal; Siberian Pony type; Russ. *Zabaĭkaljskiĭ*; syn. *Buryat, Buryat-Mongolian* — *14*:203

Trans-Don: see Don

Transylvanian; l.; var. of Romanian; Ger. *Siebenburgisch*; ? orig. from Bessarabian × Hungarian; subvar. [Ialomiţa] — *8*:334

TROTTER; inc. American, Baltic, French, Russian, Russo-American, etc.

Turki, Turkmen, Turkmenian, Turkoman: see Akhal-Teke, Iomut

Turkish Arab; l.; orig. from Arab and Anatolian Native — *8*:7-8, *13*:128

Tushin (E. Georgia, U.S.S.R.); l. — *17*:217

Tuva (U.S.S.R.); py; orig. of Upper Yenisei — *18*:148

Unmol (N.W. Punjab, India); l.; nearly extinct. [= priceless] — *11*:13

Upper Yenisei (Tuva, U.S.S.R.); l.; orig. (1893-1917) from local Tuva and Mongolian ♀♀ improved by Russian Trotter and draft breeds; Russ. *Verhne-eniseĭskiĭ* — *18*:148

Uzunyayla (E. C. Turkey); l.; orig. from "Circassian"; not *Uzuniala* — *8*:7-8

Vardarska: see Macedonian

Vasco: see Basque

Veglia: see Krk

Vendée (W. France); l.; orig. from Norman and Thoroughbred × local; Fr. *Vendéen* — *3*:238, *8*:104

Venezuelan Criollo; py — *16*:205

Vestland Pony: see Fjord

Vladimir Draft (Ivanovo, U.S.S.R.); h.; orig. (1886 onwards) from Clydesdale with Danish, Suffolk, and Dutch blood; Russ. *Vladimirskiĭ tjaželovoz*; syn. *Ivanovo Clydesdale, Russian Clydesdale, Vladimir Clydesdale* — *13*:129, *14*:203, *15*:157-8, 159

Vollblut: see thoroughbred

Voronezh Draft (U.S.S.R.); h.; orig. (in 20th c.) from Clydesdale × heavy Trotter; Russ. *Voronežskiĭ raboče-uprjažnoĭ* — *9*:292, *14*:203, *15*:157

Vyatka; North Russian Pony type; Russ. *Vjatskiĭ*; not *Viatka* — *5*:123, *9*:200-1

Waler: see Australian Waler

"WARM-BLOOD" (Germany); (1) = light (saddle or coach) inc. thoroughbred and halfbred; or (2) = halfbred, inc. East Friesian, East Prussian, Hanover, Holstein, Mecklenburg, Oldenburg, Rottal, Württemberg, Zweibrücken; Ger. *Warmblut* — *8*:10, 106, *11*:212

Waziri (N.W. Frontier Province, India, and Afghanistan); l. — *11*:13

Welsh Cob; l.; orig. from Welsh Mountain Pony with Hackney and Thoroughbred blood

Welsh Pony; inc. Welsh Mountain Pony and its derivatives: Riding Pony and Cob-Pony (*cf.* Welsh Cob) — *14*:6

West African Barb (W. of Fr. W. Africa); l.; usu. grey; orig. from Barb with some Arab blood; vars: Hodh, Sahel, Bélédougou, Southern, Djerma (× Dongola) — *17*:113-4

West African Dongola (E. of West Africa); l.; dark with white stockings; orig. from Dongola (Sudan); syn. *Fulani*: vars: Bahr-el-Ghazal (Chad), Hausa (Nigeria); orig. (with Barb) of Djerma, Songhaï, Bandiagara, Mossi and Yagha (all in Niger bend) — *17*:113-4

West African ponies: see Koto-Koli, Kirdi, M'Bayar, M'Par, Torodi, Bobo — *17*:113-4

Western Isles Pony (Scotland): var. of Highland Pony; syn. *Hebridean Pony*

Western pony (U.S.A.); inc. bronco, cow pony, Indian pony, mustang — *14*:128

Westland: see Fjord; Nor. *Vestland*

West Norway, West Norwegian: see Fjord

Westphalian "cold-blood" (Germany): strain of Rhenish; Ger. *Westfälisches Kaltblut* — *6*:279

Wuchuminsin (Inner Mongolia): var. of Mongolian — *16*:99

Württemberg (Germany); l.; Ger. *Württemberger Warmblut*

[Wusun]: orig. of Ili — *16*:99

Yabu (Persia and Afghanistan); mixed type; not *Yaboo*. [= pack-horse]

Yagha (Niger bend, Fr. W. Africa): local var. of Dongola-Barb orig.; syn. *Liptako* — *17*:113-4

Yakut; Siberian pony type; Russ. *Jakutskiĭ* — *9*:298, *15*:93, *17*:217-8

Yellow: see Galla

Yerli: see Anatolian Native
Yilee: see Ili
Yomud, Yomut, Yomuth: see Iomut
[Yorkshire Coach Horse] (England): var. of Cleveland Bay from Thoroughbred cross in early 19th c.; breed society 1886-1937 — *8*:335, 337
Yorkshire Hackney, Yorkshire Trotter: see Hackney

Zabaikal: see Transbaikal
Zaniskari Pony (Kashmir, India); not *Zanskari, Zaskari*
Zeeland: see Dutch Draft
Žemaitukai (Lithuania); py; konik type; sim. to Estonian; Ger. *Smudisch*, Russ. *Žmudka*, Pol. *Żmudzki*; syn. *Lithuanian Landrace, Samogitian*; not *Zemaitukas* — *6*:280, *8*:213, *11*:82
Zhmudka, Žmudka, Žmudzin, Żmudzki: see Žemaitukai
Zweibrücken (Palatinate, Germany); l.; orig. from Arab, Thoroughbred, Norman and Hanover; Ger. *Zweibrücker*; syn. *Pfälzisches Warmblut* (= *Palatinate "warm-blood"*) — *4*:156, *7*:208

Alabuzin (Kalinin, U.S.S.R.); ld; white, sometimes spotted; orig. (late 19th and early 20th c.) from Large White (also Middle White and Large Black) × local lop-eared — *9*:328

Alava: see Vitoria

Albanian; var: Shkodra — *7*:329, *8*:328, *9*:95

Alemtejo (Portugal); Iberian type; Port. *Alemtejana*; syn. *Transtagana*; not *Alentejo*; see also Portuguese — *15*:220-1

Andalusian (Spain); ld; Iberian type; red; Sp. *Andaluza* — *17*:9

Angeln Saddleback (Schleswig, Germany); Landschwein with Wessex Saddleback blood; Ger. *Angler Sattelschwein*; syn. *Angeln* — *10*:109, *18*:418

Annamese (Indo-China); syn. *Delta*; Fr. *Annamite* — *7*:207

Apulian (Apulia and Lucania, Italy); white, often with black markings; It. *Pugliese*; syn. *Apulo-Lucanian* (It. *Appulo-luccana*); vars: N.E. Lucania & Capitanata, Murge, S.E. Lucania

ASIATIC; short prick ears; inc. Chinese, Indo-Chinese, Indonesian, Siamese, and Philippine breeds; orig. from Asiatic wild

Asiatic wild = *Sus vittatus* Müll. & Schleg.; orig. of Asiatic domestic breeds — *7*:229, *8*:261-2, 263

[Avari] (Hungary) — *14*:238

Baasen: see Bazna

Bagun (Croatia, Yugoslavia); ld.; whitish yellow; curly coat; *cf.* Bakony (Hungary) — *6*:188, *8*:388-9

Bahia: see Tatú; not *Baia, Baiè*

[Bakony] (Transdanubia, Hungary); prim. 18th c. var.; *cf.* Bagun (Yugoslavia) — *8*:143

Bakosi (Cameroons); black; var. of West African — *5*:289

Balinese (Indonesia); ld; orig. from Chinese × Asiatic wild — *19*:26

Basilicata: see Lucanian

Basner: see Bazna

Basque (France); Iberian type, sim. to Limousin

Baston: see Lincolnshire Curly-coated

[Bavarian Landschwein] (Germany); syn. *Half-red Bavarian Landschwein* — *2*:129

Bayeux (Normandy, France); p.; black spots; orig. from Berkshire × Normandy — *2*:130, *7*:203-4

Bazna (Transylvania); black with white belt; orig. from Berkshire × Mangalitsa; not *Baasen, Basner*

Béarn (France); Iberian type; confused with Basque or crossed with Craon, Large White, or Miélan; Fr. *Béarnaise*

Beïra, Beiroa: see Bizara

Belgian; ld.; orig. from Middle White × local

Belted: see Saddleback

Berkjala (Philippines); b.; black; orig. (1915 on) ♂ Berkshire, ♀ Jalajala — *2*:186, *4*:154

Berkshire (England); p.b.; black with white points; orig. from Chinese (Cantonese) (and Siamese) × local Old English in late 18th c.; var: Canadian Berkshire; orig. of Black Edelschwein (Germany), Kentucky Red Berkshire (U.S.A.), *et al.* — *2*:226, *3*:276, 399, *4*:319, *8*:57, 262

Bizara (Portugal); Celtic type with Large White blood; syn. *Beïra, Beiroa*; not *Bizarra* — *15*:220-1

Black Castilian (Spain); Iberian type; orig. from Extremadura; Sp. *Castellana negra*

Black Edelschwein (Germany); orig. from Landschwein graded by Berkshire — *5*:288

Black Hamprace: see Hamprace

Black Iberian: see Extremadura

Black Slavonic (Syrmia, Yugoslavia); orig. (by Count Pfeifer) from Berkshire and Poland-China × Mangalitsa; syn. *Pfeifer, Pfeiffer* — *6*:188

[Black Suffolk] (England); Small Black type; *cf.* Essex

[Bohemian Blue Spotted] [Czechoslovakia); syn. *Pilsen, Plzeň, Saaz* — *6*:25, *9*:227

Bologna: see Romagna; It. *Bolognese*

Bordeaux (France); Celtic type; black

Boulonnais (Pas de Calais, France); Celtic type; Flemish orig. with Craon and Large White blood

Breitov (Yaroslavl, U.S.S.R.); p.ld; white; orig. (1908-34) from Danish Landrace (1908 on), Middle White (1913 on) and Large White (1924-26) × local lop-eared — *5*:158, *11*:109, *14*:94, 238-9, *15*:78, 184

Bresse (Vosges, France); Iberian type; black pied; crossed with Large White

Breton (France); Celtic type; disappearing by crossing with Craon and Large White

Calabrian (Italy); black; It. *Calabrese*; vars: Catanzaro, Cosenza, Lagonegro, Reggio — *4*:2-3

Canadian Berkshire; b.; var. of Berkshire

Canastra (Brazil); ld; Iberian type; black; ? orig. from Alemtejo; var: Furão. [? etym.] — *15*:223

Canastrão (Minas Gerais and Rio de Janeiro, Brazil); ld, b.; Celtic type; black or pied; often curly haired; ? orig. from Bizara. [? etym.] — *3*:51, *18*:418

Canastra-Pereira (Brazil); orig. from Canastra × Pereira

Canastrinho (Brazil)

Cantonese (Kwangtung): black-and-white var. of South China; syn. *Chinese* (Great Britain), *Macao* (Portugal and Brazil) *9*:290

Cappuccia d'Anghiari, Cappuccio: see Chiana

Carioca: see Piau

Caruncho (Brazil); ld; white or sandy with black spots; syn. *Carunchinho*. [? etym.]

Casentino: see Chiana; It. *Casentinese*

Caserta (Campania, Italy); black or grey; It. *Casertana*; syn. *Neapolitan, Pelatella* (= *plucked, i.e. bristleless*)

Castagnona (Emilia, Italy): Romagna × (Middle White × Romagna). [*castagna* = chestnut] *17*:146-7

Castilian: see White, Black

Catalan (N.E. Spain); Celtic type, sim. to Vitoria

Catanzaro: var. of Calabrian; It. *Catanzarese*; not *Catanese*

Cavallino (N.E. Lucania and W. Campania, Italy); usu. black

Cazères (Gascony, France); orig. (1860 on) from Large White, Gascony and Lauraguais; white with a few blue spots

CELTIC (N.W. Europe); usu. white, also spotted or saddleback; long lop ears; inc. lop-eared native pigs (Landschwein) of N. Europe (except German Pasture); used esp. to distinguish Bizara (N. Portugal), Catalan, Galician, and Vitoria (N. Spain), Craon (France) and local breeds of N. France, from Iberian types in Mediterranean areas; orig. from European wild (*Sus scrofa ferus*)

Cheshire (New York, U.S.A.); p.; orig. in 1850's from pigs from Cheshire and Yorkshire

Chester White (S.E. Pennsylvania, U.S.A.); ld; orig. from English imports in early 18th c.; syn. *Chester County White*; orig. of O.I.C. (Ohio Improved Chester) *16*:40

Chiana (Tiber Valley, Italy); sim. to Siena Belted, but grey with white head and feet; It. *Chianina*; syn. *Cappuccio* (= *hooded*), *Cappuccia d'Anghiari, Casentino*

Chinese: see North China, South China; syn. *Chinese Mask*; in Great Britain, Portugal, and Brazil, "Chinese" = Cantonese *14*:30

Chinese (Malaya) *7*:89, 328, 330

Chuvash (U.S.S.R.); local prim. type *2*:126

Cinta Senese, Cinto: see Siena Belted

Cornish, Cornwall: see Large Black

Cornish White Lop-eared: see National Long White Lop-eared

Corrèze (C. France); orig. from Craon × Limousin

Cosenza: var. of Calabrian; It. *Cosentina*; not *Casentina*

Cottage, Cottager's: see Gloucestershire Old Spots

Craon (Mayenne, France); p.; Celtic type; Fr. *Craonnaise*; not *Crâon* *2*:130, 188-9, *7*:203-4

Criollo (Spanish America); Celtic type; Sp. orig. [= native] *7*:229-30, *12*:116

Cuino (Mexico); ld; Chin. orig.; rare — *7*:229-30
Cuino de Pachuca (Mexico): Berkshire × Cuino — *7*:229-30
Cumberland (England); p.b.; lop ears
Czechoslovak Improved White; inc. Moravian Large Yorkshire and Slovakian White; orig. from Large White, German Edelschwein and Improved Landschwein, and local

Danish Landrace (Denmark); b.; Large White blood introduced at end of 19th c. but selected against; orig. of Swedish Landrace — *7*:293, *8*:398, *11*:174, *16*:41
Delta: see Annamese
Devon: see Large Black (N.) or National Long White Lop-eared (S.)
Dorset Gold Tip (Dorset, England); p.b.; red with black markings and gold tip to bristles; semi-lop ears
Duroc (U.S.A.); ld; red; orig. (1822-77) from Old Duroc of New York + Jersey Red of New Jersey; syn. *Duroc-Jersey*. [from racehorse named after General Duroc] — *3*:159, *12*:33, *16*:40, 271
Dutch Improved Land (E. Netherlands); b.; orig. from German Improved Landschwein and Danish Landrace × local — *13*:1, *14*:196-7
Dutch Large White (W. Netherlands); p.; var. of Large White

Edelschwein: see Black, German, Swiss
Essex (England); p.b.; orig. from Old English; syn. *Essex Half-black, White-shouldered Essex*; black var. (now U.S.A. only) is Small Black type sim. to Black Suffolk — *12*:147
Estremadura, Estremeña: see Extremadura
European wild = *Sus scrofa ferus* L.; orig. of European domestic breeds — *7*:229, *8*:261-2, 263
Extremadura (Spain); ld; Iberian type; black; hairless; vars: Guadiana, Raya; Sp. *Extremeña*; syn. *Black Iberian*; not *Estremadura* — *11*:239, *15*:261-2, *17*:9

Faenza: var. of Romagna; It. *Faentina*
Flemish (French Flanders); Celtic type; Fr. *Flamande, Flandrine*
Forli: var. of Romagna; It. *Forlivese*
Freixiandra (Portugal); local var.; red with black spots — *11*:140
Fumati (Emilia, Italy); Middle White × Romagna F_1; light copper. [= smoky] — *17*:146-7
Furão (Brazil): degenerate var. of Canastra; syn. *Vara*

Galician (Spain); Celtic type; improved var: Santiago — *14*:93
Gascony (France); Iberian type; black; disappearing

Georgian (U.S.S.R.); local prim. type; vars: Imeritian, Kakhetian, Kartolinian — *3*:395-6

German Edelschwein; p.b.; orig. from Landschwein graded up by Large White imported 1880 on; Ger. *Deutsches weisses Edelschwein* (= *German white improved pig*); syn. *German Short-eared, German White Prick-eared* (= *Deutsches weisses Stehohrschwein*), *White Edelschwein*; not *German Pedigree, Purebred*; see also Black Edelschwein — *3*:273, 274, 276, *4*:198-9, *10*:173

German Improved Landschwein; b.p.; orig. from Large White or Edelschwein × Landschwein; Ger. *Deutsches veredeltes Landschwein*; syn. *German Long-eared, German White Lop-eared* (= *Deutsches weisses Schlappohrschwein*), *V.D.L.*; vars: Hoya, Meissen — *2*:25, 225-6, *3*:274, 276, 398-9, *4*:54, 198-9, *8*:57, *11*:36, 239

German Landschwein: inc. Angeln Saddleback, Bavarian, German Pasture, Swabian-Halle, etc. — *2*:129

German Long-eared: see German Improved Landschwein

German Pasture; ld; black head and rump; prick-eared, rough-haired; Ger. *Deutsches Weideschwein*; syn. *Hanover-Brunswick, Hildesheim*; Güstin Pasture is sim. but smooth-haired; not *German Grazing, Hanover-Bismarck* — *2*:25, 225-6, 334, *3*:276, *4*:54-5, 198, *7*:324

German Saddleback: see Angeln Saddleback and Swabian-Halle

German Short-eared: see German Edelschwein

Gloucestershire Old Spots (England); b.; syn. *Cottage, Cottager's, Gloucester, Gloucester Old Spot* — *14*:238

Gołęb: see Puławy; not *Golamb*

Grand Yorkshire: see Large White

Guadiana: var. of Extremadura — *11*:239

Gurktal (Slovenia, Yugoslavia); ld; sim. to Turopolje — *6*:188

Güstin Pasture (Rügen, Pomerania, Germany); local var. sim. to German Pasture but smooth-haired; not *Güsting*

Half-red Bavarian Landschwein: see Bavarian Landschwein

Hamprace (U.S.A.); p.; black; inbred line from Danish Landrace (55 %) × Hampshire (45 %) at Montana Agricultural Experiment Station, Miles City, starting in 1936; var: Red Hamprace — *17*:429, *18*:184

Hampshire (Kentucky, U.S.A.); p.ld; black with white belt; orig. in 19th c. ultimately from Old English (? from Hampshire); syn. *Belted, Mackay, Norfolk Thin Rind, Ring Middle, Ring Necked, Saddleback, Woburn* — *16*:40

Hanover-Brunswick: see German Pasture; Ger. *Hannover-Braunschweig*

Hereford (Missouri, U.S.A.); ld.p.; red with white head, etc. (colour and pattern of Hereford cattle); ? orig. (1902-20) from Chester White, Duroc, Poland-China, and Hampshire; syn. *White-faced* — *5*:158, *16*:40

Hildesheim: see German Pasture
Hoya (Bremen): var. of German Improved Landschwein; Ger. *Hoyaer* — *8*:63
Hungarian Curly Coat: see Mangalitsa

IBERIAN (S. Europe); usu. coloured (red, black or pied); short semi-erect ears; inc. native breeds of Mediterranean countries; used esp. to distinguish Alemtejo (S. Portugal), Andalusian, Black Castilian, Extremadura, and Majorcan (S. Spain), and Limousin and other local breeds in C. and S. France, from Celtic types in N. of these countries; orig. from Mediterranean var. of European wild pig; syn. *Mediterranean*
Ievlev (Tula, U.S.S.R.); ld; usu. black spotted, also black, white, or white spotted; orig. from Large White, Large Black, "Middle Black", and "Black Spotted", × local — *19*:83
Ilocano (Philippines); usu. black with white spots — *8*:58
Imeritian: var. of Georgian with Polish lop-eared blood — *3*:395-6
Improved Land(schwein): see Dutch, German, Swiss
Indo-Chinese: see Annamese, Sino-Annamese
Indonesian: see Balinese, Javanese, Nias, Sumba

Jalajala (Philippines); org. (with Berkshire) of Berkjala — *2*:186, *4*:154
Javanese (Indonesia)
[Jersey Red] (New Jersey, U.S.A.): part orig. of Duroc

Kakhetian: var. of Georgian — *3*:395-6
Kalikin (Ryazan, U.S.S.R.); ld; orig. from Large White and Berkshire × local lop-eared — *19*:219
Kartolinian: var. of Georgian with Large White blood — *3*:395-6
Kentucky Red Berkshire (U.S.A.); ld; orig. from Berkshire in early 19th c.; syn. *Red Berkshire*
Krasnodar: see Lesogor

Lagonegro (S.W. Lucania, Italy): var. of Calabrian; It. *Lagonegrese*
Landrace: see Danish Landrace
Landrase: see Norwegian Landrace
Landschwein: see German Landschwein, etc.
Lantras: see Swedish Landrace
Large Black (England); b.; sim. to National Long White Lop-eared but black; syn. *Cornwall, Devon, Lop-eared Black*; formerly vars. in (1) Cornwall and Devon, (2) Suffolk and Essex (orig. from Small Black) — *3*:276, *18*:61
Large White (England); b.; syn. *Edelschwein* (Switzerland), *Grand Yorkshire, Large English, Large White English, Large White Yorkshire, Large York, Yorkshire*; orig. of German Edelschwein, *et al.* — *3*:399, *8*:318, *10*:109-10

Large White Lop-eared: see National Long White Lop-eared

Large White Ulster (N. Ireland); b.; lop ears; syn. *Ulster*

Lesogor (Krasnodar, U.S.S.R.); local population of European short-eared type. [= forest-mountain] — *7*:28, *11*:36

Limousin (C. France); ld; Iberian type; white with black head and rump; syn. *Saint Yrieix*

Lincoln Red (New Zealand); b.; orig. (1940 on) from Large White and Tamworth, at Massey Agricultural College, Lincoln — *14*:271

Lincolnshire Curly-Coated (England); p.b.; lop ears; syn. *Baston, Lincoln, Lincoln Curly Coat*

Lithuanian: see Vilna

Livny (Orel, U.S.S.R.); ld; orig. (early 20th c.) from Middle and Large Whites, and Berkshire, × local lop-eared; Russ. *Livenskii*; not *Liven, Livensky* — *8*:262, *11*:36, 109, *15*:78, 184

Loches (Touraine, France); *cf.* Montmorillon

Long White Lop-eared: see National Long White Lop-eared

Lop-eared Black: see Large Black

Lop-eared White (Great Britain): see Cumberland, National Long White Lop-eared, Welsh, Large White Ulster

Lop White: see National Long White Lop-eared

Lucanian: vars. of Apulian; syn. *Basilicata*

Macao: see Tatú

Macchiaiola: see Maremma

Mackay: see Hampshire

Majorcan (Balearic Is., Spain); ld; Iberian type; black; Sp. *Mallorquina*; not *Mallorcan* — *18*:184

Mallorcan, Mallorquina: see Majorcan

Manchurian: see North China

Mangalitsa (S.E. Europe); ld; orig. from Šumadija (Serbia) in late 18th c. and improved in Hungary in early 19th; Serbo-Croat, *Mangulica*, Ger. *Mangaliza*, Rom. *Mangaliţa*, Hung. *Mangalicza*; syn. *Hungarian Curly Coat*; vars: white, black (Syrmia), swallow-bellied; not *Mangalitza, Mangalizza, Mangolitsa, Mangulitza, Mongolitsa, Mongulitsa*. [Serbo-Croat, *mangulac* or *mangulica* = easily fattened, from Rom. *mancare* = to eat] — *1*:25, *6*:188, *8*:58, 142-3, *16*:40

Maremma (Tuscany, Italy); semi-wild; It. *Maremmana*; syn. *Macchiaiola* (= *forest pig*) — *18*:362

Marseilles (France); Iberian type with English blood (1850 on)

Mask: see Chinese

Mediterranean: see Iberian

Meissen (Saxony): var. of German Improved Landschwein; Ger. *Meissener* — *8*:57

[Miami] (S.W. Ohio, U.S.A.); orig. from Big China, Byfield, and Russian strains and local pigs of Miami valley in

early 19th c.; part orig. of Poland-China; syn. *Warren County*

Middle White (England); p.; orig. from Large and Small Whites; syn. *Middle Yorkshire* — *3*:399, *5*:159, *12*:204

Miélan (Gascony, France); sim. to Cazères; orig. from Large White × Gascony

Miloš: see Šumadija

Minnesota No. 1 (U.S.A.); b.; red; orig. from Tamworth and Danish Landrace (1937-46) at Minnesota Agricultural Experiment Station — *11*:177-8, *16*:44, *19*:83

Minnesota No. 2 (U.S.A.); b.; black spotted; line orig. in 1940 from Large White × Poland-China — *16*:44

Mirgorod Spotted (Ukraine); ld; orig. (since 1882) from English breeds × local short-eared Ukrainian; syn. *Mirgorod* — *5*:38, *9*:327-8, *11*:109, *14*:239, *15*:78, 184

Modena (Emilia, Italy); black-and-white; orig. (1873 on) from Large White × local Iberian type; It. *Modenese* — *17*:45

Mongolitsa, Mongulitsa: see Mangalitsa

Montmorillon (Vienne, France); orig. in late 19th c. from Large White × Craon; Fr. *Montmorillonnais*; syn. *Poitou* — *17*:260

Moor: see Romagna; It. *Mora*

Mora romagnola: see Romagna

Morava (Serbia, Yugoslavia); black; orig. from Berkshire × Mangalitsa or Šumadija — *6*:188

Moravian Improved White, Moravian Large Yorkshire: see Czechoslovak Improved White — *2*:222-3

Mulefoot (Ohio, U.S.A.); sim. to Poland-China but solid hoofed

Mundi (Minas Gerais, Brazil); in formation in one closed herd at State School of Agriculture

Murge: var. of Apulian

National Long White Lop-eared (S.W. England); b.p.; sim. to Welsh; also sim. to Large Black, but white; syn. *Cornish White Lop-eared, Devonshire White, Devon Lop-eared, Lop White, White Lop* — *18*:61

Neapolitan: see Caserta; It. *Napoletana*

Netherlands Indies: see Indonesian

Nias (Indonesia)

Nilo (Brazil); ld; Iberian type; black; hairless; syn. *Nilo-Canastra*. [? etym.]

Norfolk Thin Rind: see Hampshire

Normandy (France); Celtic type; disappearing by crossing with Craon and Large White

North China; black

North Siberian (N. Omsk and Novosibirsk); ld; orig. (since 1933) from Large White × Siberian Spotted — *9*:131, *13*:40

Norwegian Landrace; b.; orig. (1900) from Large and — *2*:90-1

Middle Whites and Danish Landrace, × local; Nor. *Norsk Landrase*

Novocherkassk (N. Caucasus, U.S.S.R.); ld; black or spotted; orig. from local Kuban with 2 crosses of Large White (1929-38), 2 of Berkshire (1938-41) and 1 of White Short-eared (1946) *18*:419

Novosibirsk, Novosibirsk Spotted: see Siberian Spotted

Ohio Improved Chester: see O.I.C.

O.I.C. (Ohio, U.S.A.); ld; orig. (1865-97) from Chester White; syn. *Ohio Improved Chester* *15*:73

[Old English]; orig. of Essex, Hampshire, and Wessex Saddleback

Old Glamorgan: see Welsh

Old Oxford: see Oxford Sandy-and-Black

Oxford Sandy-and-Black (England); b.p.; black skin with sandy hairs and black blotches; semi-lop ears; ? orig. from Tamworth, Berkshire and Large Black; syn. *Old Oxford*

Parma (Emilia, Italy); It. *Parmigiana*; syn. *Black Parma*

Pasture: see German Pasture

Pelatella: see Caserta

Pelon (Mexico); ld; Iberian type. [= hairless] 7:229-30

Pereira (São Paulo, Brazil); ld; Iberian type; grey (or black) sometimes with red spots; orig. by D. Pereira Lima from Canastra, ? with Duroc blood

Périgord (France); Iberian type, sim. to Limousin but larger; crossed with Craon and Large White; Fr. *Périgourdine*

Perugia (Umbria, Italy); It. *Perugina*

Pfeifer, Pfeiffer: see Black Slavonic

Philippine: see Ilocano, Jalajala

Piau (Paranahyba R. basin, S.W. Brazil); p.ld; Iberian type; white (or grey or sandy) with black spots; orig. from Canastra and/or Canastrão; syn. *Carioca* (Rio de Janeiro); not *Piauhy, Piauí*. [? etym.]

Pilsen: see Bohemian Blue Spotted

Pirapitinga (Minas Gerais, Brazil); ld; ? var. of Tatú; black or violet; Chinese orig.; not *Pirapetinga* *16*:40

Plzen: see Bohemian Blue Spotted

Podolian Black Spotted (W. Ukraine, U.S.S.R.); ld; orig. from Berkshire, Middle White, and Large White × local; Russ. *Podoljskiĭ černopestryĭ* *18*:301

Poitou: see Montmorillon

Poland-China (Ohio, U.S.A.); ld; black with white points; orig. (1835-70) from Berkshire, Miami, etc.; orig. of Spotted Poland-China. [a settler from Poland and "Big Chinas" — one of strains forming Miami] *8*:57-58, *16*:40

Polesian (Pripet Marshes, U.S.S.R.); syn. *Sarny*

Polish Native; ld *3*:49, *6*:187

Pomeranian Large White (Poland); b.; orig. (20th c.) from Large White × local white prick-eared (inc. German Edelschwein); Pol. *Wielka biała pomorska*; syn. *Pomorze* *8*:263, *16*:138-9

Pomorze: see Pomeranian

Portuguese; Iberian type; syn. *Red Iberian*; see also Alemtejo *11*:239, *15*:261-2

Pugliese: see Apulian

Puławy (Poland); ld; black-and-white or black-and-red; orig. from Berkshire × Polish native; syn. *Gołęb* or *Gołębska* *3*:160, *12*:204, *15*:119, 150

Raya: var. of Extremadura with Portuguese blood. [= frontier (of Spain and Portugal)] *11*:239

Red Berkshire: see Kentucky Red Berkshire

Red Hamprace: var. of Hamprace (red with black spots) *17*:429

Reggio: var. of Calabrian

Reichenau: see Rychnov

Rimini: var. of Romagna; It. *Riminese*

Ring Middle, Ring Necked: see Hampshire

Romagna (Emilia, Italy); p.; black or copper coloured; It. *Mora*, or *Mora romagnola*; syn. *Bologna, Moor*; vars: Faenza, Forlì, Rimini; F_1 by Middle White = fumati (smoky); back cross to Romagna = castagnona (chestnut) *17*:146-7, *18*:420

Romanian native; prim.; inc. Transylvanian

Rychnov (Czechoslovakia); orig. (1865) from Large and Middle Whites and Poland-China, × local; Ger. *Reichenau* *2*:222-3

Saaz: see Bohemian Blue Spotted

Saddleback: see Angeln, Essex, Hampshire, Siena Belted, Swabian-Halle, Wessex; syn. *Belted, Sheeted*

Saint Yrieix: see Limousin; not *Saint-Yriex*

Santiago (N.W. Spain); Celtic type, sim. to Vitoria; ? improved var. of Galician

Sardinian (Italy); It. *Sarda*

Sarny: see Polesian

Schwäbisch-Hällisches: see Swabian-Halle

Scutari: see Shkodra; not *Skutari*

Sheeted: see Saddleback

Shishka: see Šiška

Shkodra: var. of Albanian; often black spots; It. *Scutari* *9*:95

Shumadija: see Šumadija

Siamese

Siberian Spotted (N. Omsk and Novosibirsk); syn. *local Siberian, local Novosibirsk, Novosibirsk Spotted*; orig. (with Large White) of North Siberian *9*:131, *15*:184

Sicilian (Italy); mixed type with blood of Caserta, Large White, Large Black, *et al.* *16*:238-9

Siena Belted (Tuscany, Italy); black with white belt; It. *Cinta Senese* — *19*:83

Sino-Annamese (Indo-China) — *7*:207

Šiška (Yugoslavia); p.; prick-eared; orig. of Šumadija, Turopolje; not *Shishka, Siska* — *6*:188, *14*:1-2, *16*:137-8

Slovakian Improved Landschwein, Slovakian White: see Czechoslovak Improved White — *10*:135, *13*:150

[Small Black] (England); inc. Essex (black var.) and Black Suffolk; orig. of Suffolk and Essex var. of Large Black — *19*:81-2

[Small White] (England); Chinese (Cantonese) blood; syn. *Small Yorkshire*

South China; ld; black and/or white; vars: Cantonese, Yungchang

Spotted Poland-China (Indiana, U.S.A.); ld; orig. from (1) local spotted (with Miami blood), (2) Poland-China, and (3) Gloucestershire Old Spots (1 ♂ and 1 ♀ imported 1914) — *16*:40

Srem: see Syrmia

Staffordshire: see Tamworth

Suffolk (England): see Black Suffolk

Suffolk (U.S.A.); p.; orig. from Small White

Šumadija (Serbia, Yugoslavia); ld; orig. from Šiška and Mediterranean; syn. *Miloš*; orig. of Mangalitsa; not *Shumadinka, Shumadija, Sumadia* — *6*:188, *8*:142-3

Sumba (Indonesia)

Swabian-Halle (Württemberg, Germany); black with white belt; Ger. *Schwäbisch-Hällisches* — *2*:129, *9*:129-30, *10*:110, 173

Swedish Landrace; b.; orig. from Danish Landrace; Swed. *Svensk Lantras* — *1*:253-4, *16*:138, *17*:147

Swiss Edelschwein: see Large White — *2*:406

Swiss Improved Landschwein; b.; orig. from Large White (imported 1880-90) × native; Ger. *Schweizerisches veredeltes Landschwein*, Fr. *Porc amelioré du pays* — *2*:406, *3*:398-9, *4*:55-6, *8*:389, *9*:227

Syrmia (Yugoslavia): black var. of Mangalitsa; Croat, *Sremica* — *8*:142-3, *16*:137

[Szalonta] (E. Hungary); prim. 18th c. var. — *8*:143

Szechwan: see Yungchang

Tamworth (England); b.; golden-red; syn. *Staffordshire* — *3*:399

Tatú (S. Brazil); ld; sim. to Pirapitinga; usu. black and hairless; Chinese orig.; syn. *Bahia* (N.E.), *Macao, Tatuzinho.* [= armadillo (from shape of head)] — *15*:223, *18*:418-9

Thin Rind: see Hampshire

Transtagana: see Alemtejo

Transylvanian (Romania); prim.; see also Romanian native — *2*:335

Turopolje (Croatia, Yugoslavia); ld; black-and-white; orig. from Šiška and Mediterranean — *1*:177, *2*:224, *8*:388-9, *11*:173, *12*:205, *19*:83

Ukrainian (U.S.S.R.); local population of European short-eared type; orig. (with English breeds) of Mirgorod Spotted and Ukrainian White Steppe — *1*:109-10

Ukrainian Spotted Steppe (U.S.S.R.); p.ld; sim. to Ukrainian White Steppe but spotted and with bristles; orig. from Ukrainian White Steppe × local spotted — *18*:300

Ukrainian White Steppe (U.S.S.R.); p.ld; orig. (1920-34) from Large White × Ukrainian; Russ. *Stepnyĭ belyĭ ukrainskiĭ*; syn. *White Ukrainian* — *1*:109-10, *3*:48, *8*:206, *11*:109,

Ulster: see Large White Ulster

Urzhum (Kirov, U.S.S.R.); orig. (1893 onwards) from Large White × local lop-eared; Russ. *Uržumskiĭ* — *15*:184

Vara: see Furão

V.D.L.: see German Improved Landschwein

Victoria (Indiana, U.S.A.); ld; orig. (1850-86) from Poland-China, Berkshire, Chester White, and Suffolk. [sow named Queen Victoria]

Vilna (Lithuania); ld; orig. from Polish Native; syn. *Lithuanian* — *8*:388

Vitoria (Alava, N. Spain); Celtic type; orig. from local, improved by Large White *et al.*; Sp. *Vitoriana*; syn. *Alava*, *Chato* (= *short-nosed*) *vitoriano* — *15*:261-2

Warren County: see Miami

Welsh; b.; lop ears; sim. to National Long White Lop-eared; syn. *Old Glamorgan*

Wessex Saddleback (Hampshire, England); b.p.; orig. from Old English; syn. *Wessex*, *Belted*, *Sheeted* — *10*:41-2, 112, *12*:204

West African native; Iberian type; black, white, or pied — *17*:146

White: see Large, Middle, Small

White Castilian (Spain); orig. from Black Castilian and Vitoria

White Edelschwein: see German Edelschwein

White-faced: see Hereford

White Lop: see National Long White Lop-eared

White Ukrainian: see Ukrainian White Steppe

wild: see European (*Sus scrofa ferus*) and Asiatic (*Sus vittatus*)

Wilno: see Vilna

Woburn: see Hampshire



Yorkshire: see Large White, Middle White, Small White

Yorkshire Blue-and-White (England); local var. — *16*:197-8

Yungchang (Szechwan): var. of South China; white with black spectacles — *12*:115-6, *14*:122

Abda: see Doukkala

Abidi: see Ibeidi

Abyssinian (Ethiopia); m.d.; East African fat-tailed type; usu. brown; hy, hd or pd; vars. with woolly undercoat: Manze, Shoa — *5*:2, *14*:230

Adromalicha: see Sfakia

Afghan; cw.; ft.; vars: Hazara, Herat, Kandahar, Maimené, Mazar-i-Sharif — *5*:402

AFRICAN LONG-LEGGED; hy, ♂ hd, ♀ pd, thin tail; inc. Sudanese, West African Long-legged, Congo, Baluba; orig. from Ancient Egyptian (Hamitic Long-tailed) — *11*:99, *14*:230

Afridi: see Tirahi

Afrikaner (S. Africa); various colours; hy, pd or hd, lft.; orig. from Hottentot; syn. *Cape fat-tailed*; vars: Damara, Namakwa; orig. (with Blackhead Persian) of Ronderib; not *Africander*, *Afrikander* — *11*:99

Ain Sefra (S. Algeria): var. of Berber; brown head — *2*:215

Ait Mohad (Morocco): var. of Berber; white; pd

Ak-Karaman (Central Anatolia, Turkey); m.d.cw.; Middle East fat-tailed type, *cf.* Kizil-Karaman; ♂ hd, ♀ usu. pd; syn. *White Karaman*, *Barazi*, *Garha*, or *Salamali* (Syria). [*ak* = white] — *4*:426, *5*:281, *7*:205, *8*:7-8, *14*:23, *15*:254

Aknoul (Morocco): dwarf earless var. of Berber

Albanian Zackel; d.cw.; hd; vars: Common Albanian, Lara Polisi, Mati, Ruda, Shkodra — *4*:43, *8*:328

Algerian: see Algerian Arab, also Barbary, Berber, and Beni Guil

Algerian Arab (S. Algeria); m.cw.; vars: Oran, Ouled Jellal, Tadmit (Tunisia) — *18*:287

Alpago (Venetia, Italy); w.m.d.; lop-eared alpine type; sim. to Lamon but smaller; It. *Alpagota*; syn. *Pagota* — *16*:127

Alpine, *Alpine lop-eared*: see lop-eared alpine

Alpine (France): see Embrun; Fr. *Race des Alpes*

Altai (U.S.S.R.); fw.; orig. from Rambouillet or Australian Merino, × Siberian Merino — *18*:285

Altamura (Apulia, Italy); Moscio type; It. *Altamurana* — *4*:309-10

Amalé: see Sudanese

American Merino (U.S.A.); fw.; orig. from Spanish Merino imported 1793-1811; vars: A type or Vermont, B type, and C type or Delaine

American Tunis (U.S.A.); m.; coloured face and legs; pd, (ft.); orig. from Barbary imported from Tunisia in 1799

ammon: see argali

Anatolian fat-tailed: see Karaman, Dağliç *15*:254

Ancient Egyptian: see Hamitic Long-tailed

[Ancon] (Massachusetts, U.S.A.); achondroplastic mutant occurring in 1791, extinct about 1876; syn. *Otter*; similar mutant extant in Norway. [Latin; = bent arm] *6*:18, *17*:358-9, *18*:56, 57

Andalusian (Spain); mw.; Raso type; Sp. *Andaluza*; syn. *Andalusian Merino* *13*:32, *15*:179

Andi: var. of Dagestan Mountain; black and white subvars.

Andorran (Spain-France); m.cw.; black spots on face; ♂ sometimes hd, ♀ pd; var. of Churro (Spain) or = Tarascon (France) *6*:108

[Anglo-Merino] (England); Negretti and Paular strains of Spanish Merino × various English breeds (esp. Southdown and Ryeland) at beginning of 18th c.; syn. *English Merino*

Angola Maned; hy; syn. *Coquo*

Aomori (Japan); m.w. *2*:332

Aouasse: see Awasi

aoudad (Fr. N. Africa) = *Ammotragus lervia* (Pall.); syn. *arui, barbary wild sheep, bearded argali* *6*:109-10

APENNINE (Italy); d.m.cw.-w.; mixed type, often with Merino, Upper Visso or Bergamo blood; inc. Casentino, Chiana, Frabosa, Garfagnana, Massa, Siena, and Visso; It. *Appenninica* *17*:357

Appennino-Modenese: see Pavullo

Appenzell: see White Swiss Mountain

[Apulian]; It. *Pugliese*; orig. of Improved Apulian; see also Altamura, Carapella, Lecce

Apulian Merino: see Improved Apulian

Aquilana (Abruzzi and Campania, Italy); cw.

Ara-Ara: see Tuareg

Arab (Egypt): see Barki

Arab (W. Africa): see Maure

Arabi (S.W. Persia, S. Iraq, N.E. Arabia, few scattered in Syria); m.cw.; Middle East fat-tailed type; black (30 % pied in Iraq); ♂ hd, ♀ pd; syn. (Syria) *Ashfal, Chaffal, Choufalié, Shafali, Shaffal, Dilem, Dillène, Delimi*; not *Arbi* *5*:281, *7*:205, *14*:22, *17*:211

Arabi (U.S.S.R.): black var. of Karakul *3*:391, *10*:166

Arabian long-tailed: see Nejdi

Aragon (Spain); w.m.; Raso type; pd; Sp. *Aragonesa*; syn. *Rasa aragonesa* *13*:32, *15*:179, *17*:9, *18*:363

Arbi: see Arabi

Archa: var. of Beni Guil; not *Harcha*

Ardèche (S. France); m.; local, disappearing var., sim. to Lacaune and Larzac; usu. pd; Fr. *Ardèchoise* *4*:426

Ardes (S. Puy-de-Dôme, C. France); d.m.w.; pd; ? orig. from Lacaune and Lozère Causses × local; not *Ardres*

argali (Central Asia) = *Ovis poli* Blyth; vars: Altai (*O. ammon* L.), arkhar (Tien Shan) = *O.p. karelini*, Pamir, *et al.*; syn. *ammon, Marco Polo's* — *5*:26-7, 151-2

Argentine Merino; fw.m.; orig. from Criollo improved by Spanish and Saxony Merino (1813-74), graded up by Rambouillet (1875-90) — *4*:308, *7*:393

Argos: var. of Greek Zackel

arhar: see arkhar

Ariano, Improved: see Improved Ariano

Ariège: see Tarascon; Fr. *Ariègeoise*

arkal (Ust-Urt) = *O. vignei arcar* Lyd.: var. of urial; syn. *O. orientalis arcar* Gmelin, *O. arcar* Brandt; not *arkar*

arkhar (Kirgizia) = *Ovis poli karelini*; var. of argali; syn. *Tien Shan argali*; not *arhar, arkar* — *4*:306-7, *5*:26-7, *7*:126-7, *9*:116-7,

Arkhar-Merino (Kazakhstan, U.S.S.R.); mw.m.; ♂ hd, ♀ usu. pd; orig. (1934 on) from arkhar × Merino — *18*:283-4

Arles Merino (Rhône mouth, Frauce); fw.m.d.; orig. from local graded to Merinos; Fr. *Mérinos d'Arles*; vars: Camargue (grey) and Crau (reddish) — *2*:215

Arrit (Eritrea); d.m.; hy, pd, fat at base of tail — *5*:2, *14*:230

[Artois] (N. France): var. of Flemish Marsh; orig. (with Leicester) of Boulonnais; Fr. *Artésienne* — *1*:251

arui: see aoudad

Ashfal: see Arabi

Askanian Rambouillet (U.S.S.R.); fw.m.; orig. (1925-34) from Merinos at Askania-Nova, Ukraine, improved by American Rambouillet; syn. *Soviet Rambouillet of Askanian type* — *3*:385, *5*:283, *11*:101-2

Astrakhan: see Karakul; not *Astarakan, Astrakan*

Aure & Campan (Hautes Pyrénées, France); m.w.; West Pyrenean type transitional to Central Pyrenean; usu. pd; var: Campan (smaller and always pd); syn. *Lannemezan* — *16*:130-1

Ausimi (Lower Egypt): var. of Egyptian; brown head; syn. *Meraisi, Ousimi, Osemi, Ossimi*; not *Awsemy* — *16*:233-4

Australian Merino; fw.; orig. in 19th c. from Saxony Merino with some Anglo-Merino, Rambouillet, and Vermont blood; strains: Camden Park (early), New Zealand, Peppin (New South Wales), South Australian, Tasmanian or fine-wool — *5*:244-6, *7*:124, 393, *10*:72, 237-8, *12*:166

Austrian Negretti; fw.; orig. from Negretti strain of Spanish Merino × local breeds

Avar: var. of Dagestan Mountain; white, with black or red on head and feet; subvar: Tlyarota (with Lezgian and Tushin blood) — *15*:34

Avranchin (S. Manche, France); m.lw.; sim. to Cotentin but smaller; brownish face and feet; pd; orig. from Leicester (+ Southdown and Romney) × local (1830-1900); syn. *Race du littoral sud de la Manche.* [= Avranches district] — *2*:119, *5*:280, *7*:222

Awasi (Syria, Palestine, and C. and W. Iraq); cw.d.m.; Middle East fat-tailed type; white with black on face, also black or brown; ♂ hd, ♀ usu. pd; syn. *Baladi, Deiry, Syrian, Ussy*; var: N'eimi (Iraq); not *Aouasse, Awass, El Awas.* [= between 2 rivers, *i.e.* Tigris and Euphrates] — *2*:400, *4*:426, *5*:281, *9*:113-4, *17*:211

Awsemy: see Ausimi

Azerbaijan Mountain Merino (U.S.S.R.); orig. from local Merino × Bozakh; syn. *Kedabek Merino* — *14*:22, *16*:200-1

Bagnes: see Roux-de-Bagnes

Bagri (Bagar tract, around Delhi, India); m.cw.; usu. brown or black head

Bains: see Velay Black

Bakarwal: see Bhakarwal

Bakewell Leicester: see Leicester

Bakkarwal: see Bhakarwal

Baladi (Egypt): see Fellahi

Baladi (Syria): see Awasi

Balandji, Balani: see Bornu

Balbas (Armenia and Nakhichevan, U.S.S.R.); m.d.cw.; Caucasian fat-tailed type, sim. to Mazekh; ♂ sometimes hd, ♀ pd — *9*:318

Baldebukov: see German Merino

Bali-Bali: see Uda

Balkar: var. of Karachaev

Balkhi (N.W. Afghanistan and N.W. Frontier Province, India); cw.d.; usu. black or grey; hd (short), sft. — *10*:101

Balonndi: see Bornu

Baluba (Belgian Congo); African long-legged type; hy, maned — *14*:230

Baluchi (Baluchistan, E. Persia, and Sind, India); m.d.cw.; black marks on head and legs; ♂ hd, ♀ pd, ft.; syn. *Baluchi dumba, Beluj*; vars: Kachi, Mengli — *18*:285

[Bampton Nott] (England); orig. (+ Southam Nott and × Leicester) of Devon Longwool. [nott = pd]

Banihal (Kashmir, India); w.

Bannur: see Mandya

Barazi (N. Syria): see Ak-Karaman; not *Barasi, Brazi, Brézi, Parasi*

Barbados Black-belly: see West Indian

Barbary (Libya, Tunisia, and E. Algeria); d.cw.m.; Middle East fat-tailed type, sim. to Egyptian; usu. white, also pied, black or brown; ♂ hd (often several in Libya), ♀ pd; Fr. *Barbarin*, It. *Barbaresca*; syn. *Tunisian*; vars: (Italy) Campanian Barbary, Sicilian Barbary — *7*:19-20, *13*:205, *16*:328, *18*:382-3

barbary wild sheep: see aoudad

Barcelonnette (Basses Alpes, France); m.cw.; local disappearing var. of lop-eared alpine type — *4*:421

Bardoka (Serbia, Yugoslavia); var. of Pramenka; syn. *Metohija Whitehead*

Barki (N.W. Egypt): var. of Egyptian; *cf.* Barbary; often brown head; syn. *Arab, Bedouin.* [= Cyrenaican]

Barnstaple: see Devon Closewool

Barwal (Himalayas); ? var. of Tibetan

Basque (S.W. France); d.m.cw.; West Pyrenean type; hd or pd; Fr. *Basquaise*; Basque, *Muthur churria* (= *white face*) — *5*:406, *6*:108, *7*:316, *15*:112, *16*:130-1

Basque (Spain): see Lacho

Baumshire: see Scottish Halfbred

Bazakh: see Bozakh

Bazougers: see Maine

Bearded argali: see aoudad

Béarn (S.W. France); d.m.cw.; West Pyrenean type; white or brown; hd; Fr. *Béarnaise* — *2*:118, *3*:147-8, *6*:108, *16*:130-1

Bedouin (Arabia): see Nejdi

Bedouin (Egypt): see Barki

Bekrit (Morocco); Middle Atlas type; orig. from Berber, Tadla, and Beni Guil

Bela Klementina: var. of Bulgarian — *2*:208

Bela Slatina: var. of Bulgarian; not *Bjela Slatinska* — *1*:251, *2*:208

Bellani: see Bornu

Bellary (Madras, India); cw.; black, grey, white with black face, or pied; ♂ hd, ♀ pd; not *Bellari* — *9*:221, *10*:101

[Bell Multinippled] (Nova Scotia, Canada); selected from local sheep by Graham Bell in 1890 and bred till 1922; orig. of Multinipple

Belogradchik: st. var. of Bulgarian; mottled head and feet

Beluj: see Baluchi

Benevento: see Campanian Barbary

Beni-Ahsen (N.W. Morocco); w.; hd; not *Beni Hassen* — *6*:278

Beni-Guil (E. Morocco); m.cw.; hd; syn. *Petit Oranais, Hamyan* (Algeria); vars: Archa, Fartas (polled), Tousimet, Méchéria (Algeria); not *Beni Ghil, Béni Guill* — *3*:28-9, *7*:20

Beni-Hassen: see Beni-Ahsen

Beni-Meskine: var. of Tadla

Bentheim (Osnabrück, Germany); cw.; black face; pd; orig. from Dutch × Heath; Ger. *Bentheimer*

Bera: see Sikhim

Berari (Central Provinces, India); cw.; ? pd; syn. *Black Colonial*

Berber (Morocco and Algeria); m.cw.; white, or black head; hd; syn. *Kabyle*; vars: Ait Mohad, Aknoul, Marmoucha, and Zoulai (Morocco), Ain Sefra, Chelalla, Géryville, Khenchela, and Tiaret (Algeria); not *Barbary* — *5*:26, *6*:278, *7*:221

[Berca] (France): orig. (with Leicester) of Cotentin; syn. *Roussin* — *7*:222

Bergamo (Lombardy, Italy); m.cw.d.; basic breed of lop-eared alpine type; It. *Bergamasca*; orig. (with Paduan) of Carinthian (Austria) and (with Carinthian) of Solčava (Yugoslavia) — *1*:251, *3*:43, 234, *4*:425-6, *10*:33

[Berkshire Knot] (England); orig. (+ Wiltshire Horn and × Southdown) of Hampshire Down; syn. *Old Berkshire*. [knot = pd]

[Berne]: black var. of Jura

Berrichon: see Berry

Berry (C. France); m.sw.; pd; Fr. *Berrichonne*; former vars: Champagne, Crevant, Boischaut, Brenne; modern vars: Cher Berry and Indre Berry (*q.v.*); not *Berri* — *6*:295, *7*:222-3, *8*:138

Bezuidenhout Afrikaner (Orange Free State, S. Africa); m.cw.; ft.; orig. by W.F. Bezuidenhout (1918 on) from Woolled Persian (*sic*) × Blackhead Persian; syn. *Woolled Afrikaner* — *18*:174

Bhadarwah (Jammu and N.E. Punjab, India); cw.tr.; face often coloured; ♂ hd, ♀ pd, st.; syn. *Gaddi, Kangra Valley* — *9*:221, *10*:165

Bhakarwal (S.W. Kashmir, India); cw.m.; coloured or white; long lop ears; ♂ hd, ♀ pd; not *Bakarwal, Bakkarwal*. [class of nomads] — *18*:285

bharal (Himalayas) = *Pseudoïs nahura* Hodgson; syn. *blue, napo*; not *bhurrel, burhal*

bhurrel: see bharal

Biangi (Tibet and N.E. Punjab, India); cw.tr.; syn. *Kangra Valley*; not *Birangi*

Bibrik (Baluchistan, India); cw.m.; usu. black or brown muzzle; ♂ hd, ♀ pd, ft.; var: Khetrani; not *Bibrick* — *10*:165

Biella (Piedmont, Italy); m.w.-cw.(d.); lop-eared alpine type; occ. pied or black; It. *Biellese* — *3*:43, *13*:144, *18*:174

bighorn (Rocky Mountains, N. America) = *Ovis canadensis* Shaw; many local vars. — *9*:20, *11*:233, *13*:89,

Bikaneri (Rajputana, India); cw.; face may be coloured; pd; syn. *Buchni, Jangli*; not *Bikaneer, Bikanir, Vicanere* — *9*:221, *10*:101, 102, *11*:100

Birka (Yugoslavia) — *14*:1-2

Biscay: see Lacho

Bityug (Voronezh, U.S.S.R.): var. of Russian Long-tailed

Bizet (Haute Loire-Cantal, C. France); m.w.; grey-brown, with black on sides of face and on legs; ♂ usu. hd, ♀ usu. pd, lt.; syn. *des Bizets*. [? from *bise* = beige] — *2*:209-10, 318, *6*:207

Black Bains: see Velay Black

Black-Brown Mountain (W. Switzerland); sw.m.; pd; inc. Frutigen, Jura, Roux-de-Bagnes, Saanen, and Simmental; Ger. *Schwarzbraunes Bergschaf* or *Gebirgsschaf*, Fr. *Brun noir du pays*, or *des alpes*, or *des montagnes* — *2*:406, *8*:375, *10*:33-4, *13*:145

Black Colonial: see Berari

Blackface (E. England): see Suffolk

Blackface (Scotland): see Scottish Blackface



BLACKFACED MOUNTAIN (N. England and Scotland); cw.; black or mottled face and legs; hd; inc. Scottish Blackface, Derbyshire Gritstone, Lonk, Rough Fell, Swaledale; also included whitefaced Limestone and Penistone; syn. *Blackface Hill, Blackfaced Heath*

Blackface Mutton (Germany): see German Blackheaded Mutton

Blackface Norfolk Horned: see Old Norfolk Horned

Black-headed Mutton (Germany): see German Blackheaded Mutton

Black-headed Mutton (Switzerland): see Brownheaded Mutton

Blackhead Persian (S. Africa); m.; hy, pd, fr.; var. of Somali, imported 1870 on; syn. *Black-headed Persian*; name also used for Somali in E. Africa — *3*:42, *16*:233

Black Maure (W. Africa): black, long-haired var. of Maure; syn. *Nar, Zaghawa* (A.-E. Sudan) — *3*:40, *8*:132

Black Merino (Portugal); *cf.* Spanish Merino (black var.); var: Pialdo — *5*:403

Black Merino (Tunisia): see Thibar

Blacknosed Swiss: see Valais Blacknose

Black Velay: see Velay Black

Black Welsh Mountain: var. of Welsh Mountain

Bleiburg: var. of Carinthian

Bleue du Maine: see Blue-faced Maine

Blinkhaar: only recognised var. of Ronderib Afrikaner. [= smooth hair]

blue: see bharal

Bluefaced Leicester (N. England): var. of Border Leicester with blue skin and finer fleece; syn. *Hexham Leicester* — *18*:174-5

Bluefaced Maine (N.W. France); m.w.; pd; orig. from Leicester (and Romney) imported 1855-80 × local; Fr. *Bleue du Maine, Maine à tête* (or *face*) *bleue*; syn. *Mayenne Blue*; see also Whitefaced Maine — *2*:115, *4*:420, 421

Bohemian (Czechoslovakia); cw.; ♂ hd, ♀ pd; Czech, *Česká ovce selská* (= *Bohemian Land Sheep*) — *3*:149

[Boischaut]: var. of Berry; syn. *Bourges*; not *Bois Chaud* — *7*:222, 222-3

Bokara, Bokhara: see *Bukhara*

Bokino (Tambov, U.S.S.R.): var. of Russian Long-tailed

Bordaleiro (Portugal); d.; white or black; vars: churro (coarse-wooled) and common; not *Bordoleiro*. [= curly-wooled] — *1*:251, *5*:403, *15*:220

Border Cheviot: see Cheviot

Border Leicester (S. Scotland and N. England); lw.m.; pd; orig. from Leicester, ? with Cheviot blood, in late 18th and early 19th c. (to 1869); var: Bluefaced Leicester (blue skin and finer fleece) — *3*:154, *7*:393, *13*:144, *18*:412

Bornu (N.E. Nigeria, N. Cameroons, and Chad): white var. — *7*:223-4

of Fulani; syn. *Balandji, Balani, Balonndi, Bellani, Fellata* (Chad), *Weiladjo, White Bororo*

Bororo: see Uda

Bosnian Zackel (Yugoslavia): see Privor and Vlašić vars. of Pramenka; syn. *Bosnian Mountain* — *1*:251

Boukhara: see Bukhara

Boulonnais (N. France); m.lw.; orig. in 19th c. from Leicester, Dishley Meriño, *et al.*, × Artois. [Boulogne district] — *16*:191

Bourbonnais: see Velay Black

Bourges: see Boischaut

Bozakh (Armenia and Azerbaijan, U.S.S.R.); m.d.cw.; Caucasian fat-tailed type, ? crossbred; usu. pd; not *Bazakh, Bosach* — *9*:318

Brazi, Brézi: see Barazi

[Brenne]: var. of Berry

Brenta Selected (Venetia, Italy): Bergamo × local Trento crosses; It. *Brentegana scelta* — *16*:127

Brenta Veronese (Venetia, Italy): Vicenza and Bergamo × local Veronese crosses; It. *Brentegana Veronese* — *16*:127

Breton Dwarf: see Ushant

BRITISH LONGWOOL; lw.; pd; inc. Border Leicester, Cotswold, Dartmoor, Devon Longwool, Kent or Romney Marsh, Leicester, Lincoln Longwool, Roscommon, South Devon, Wensleydale; most have Leicester blood

Brownheaded Mutton (N. Switzerland); m.sw.; pd; inc. Grabs and Oxford Down; Ger. *Braunköpfiges Fleischschaf*; syn. *Improved Black-headed Mutton-Wool, Swiss Black-headed Mutton* — *2*:406, *8*:375, *10*:33-4, *13*:145, *17*:139

Bschlabser: var. of Carinthian

Buchni: see Bikaneri

Bukhara: see Karakul; not *Bokara, Bokhara, Boukhara*

Bulgarian; d.cw.m.; coloured in E., white or white with coloured face in W.; ♂ hd, ♀ hd or pd, lt.; orig. from Zackel (+ Tsigai); vars: Bela Klementina, Bela Slatina, Belogradchik, Dobrich, Dupnitsa, Panagyurishte, Pleven, Plovdiv, Radomir, Rila, Sevlievo, Shumen, Sofia White, Stara Zagora, Svishtov, Yuruch; see also Karakachan, Karnobat — *1*:251, *3*:41, *10*:235

Bundelkhandi (Central India); cw.; various colours; ? pd; syn. *Jubbulpuri*

Bündner Oberland (Graubünden, Switzerland); cw.; remnants of prim. type with goat-like horns, descended from Peat sheep, found in Nalps, Lugnez, Luzein, Tavetsch, Vrin, etc.; sim. to Steinschaf; syn. *Graubünden, Grisons* — *6*:17, *18*:409-10

Burgundy Merino; see Châtillonais; Fr. *Mérinos bourguignon*, or *de la Bourgogne*

burhal: see bharal

Burmese; m.

Buryat-Mongolian (Siberia); m.cw.; sim. to Mongolian and Siberian; white with black or red on head; ♂ hd, ♀ pd, fr.-ft.-lt.; not *Buriat-Mongol* — *5*:32, 145, *7*:22, 129

Buti: see Thal

Butjadingen: see German Whiteheaded Mutton; Ger. *Butjadinger*

Cadore (Venetia, Italy); cw.m.; lop-eared alpine type but small — *16*:127

Cagliari: see Sardinian

Cago (Himalayas); ? var. of Tibetan; not *Cagi*

Caithness: see North Country Cheviot

Cakiel: see Zackel

Calabrian (Italy); Moscio type; dark brown; It. *Calabrese*; orig. of Improved Calabrian

Calcutta (W. Malaya); w.-hy; Indian orig.

Camarès (S. Aveyron, S. France): var. of Lacaune — *2*:209, *16*:191

Camargue Merino: grey var. of Arles Merino

Cambar: see Kombar

[Cambrai]: var. of Flemish Marsh

Camden Park: early strain of Australian Merino based on Anglo-Merino

Cameroons Dwarf: see West African Dwarf

Campan: var. of Aure & Campan; pd; smaller

Campanian Barbary (Campania, Italy); d.m.cw.; var. of Barbary; often dark spots on face; ♂ hd, ♀ pd, ft.; It. *Barbaresca* or *laticauda della Campania* — *16*:233, *17*:140

Campine (N. Belgium); Fr. *Campinoise* — *9*:286, *12*:60

Canadian Corriedale (Alberta, Canada); mw.; orig. (1919-34) from Corriedale × (Lincoln × Rambouillet) — *14*:22

Çandir: see Mazekh; not *Candyr, Zandir*. [= crossbred]

[Cannock Chase] (England); orig. (with Southdown *et al.*) of Shropshire

Cape fat-tailed: see Afrikaner

Caraman: see Karaman

Caramanitico: see Karamaniko

Carapella (Apulia, Italy); black; It. *Carapellese* — *4*:309-10

Cardy Welsh Mountain (Cardiganshire, Wales): var. of Welsh Mountain with whiter face and finer fleece

Carinthian (Austria); m.w.; lop-eared alpine type; yellowish white; pd; orig. from Bergamo and Paduan, × native; vars: Bleiburg, Bschlabser, Gurktal, Kanaltal, Mölltal, Oetztal, Petzen, Seeland, Uggowitz, Zillertal; orig. (with Bergamo) of Solčava (Yugoslavia); syn. *German Mountain* (Germany), *Schnalser* — *1*:251, *6*:296, *7*:123, *9*:116

Carsolina: see Karst

Casentino (Arezzo, Tuscany, Italy); Apennine type

Cassubian: see Kasubian

Castilian (Spain); m.d.w.; Raso type; usu. black; Sp. *Castellano*; syn. *Castille* — *13*:32, *15*:179, *17*:9

Castillon (France); w.m.; var. of Central Pyrenean; hd or pd; Fr. *Castillonaise*; syn. *Pyrenéenne centrale à extrémités rousses* (= *with red extremities*), *Saint Girons* — *16*:130-1

CAUCASIAN FAT-TAILED (U.S.S.R.); m.d.cw.; Middle East fat-tailed type, sim. to Karaman (Turkey); inc. Balbas, Bozakh, Karabakh, Lezgian and Mazekh, also (minor and crossbred types) Dymyk, Erik, Jaro, Kyasma, and Shirvan (Azerbaijan and Armenia); Imeritian and Tushin (Georgia); Dagestan Mountain, Kumyk, and Tabasaran (Dagestan); and Karachaev (N. Caucasus)

Caucasian Rambouillet (U.S.S.R.); fw.m.; orig. (1921-36) in N. Caucasus from Novocaucasian Merino improved by American Rambouillet; syn. *Soviet Rambouillet of Caucasian type* — *5*:26, *8*:37, 245, *11*:101-2

Cauchoise: see Caux

Caussenard: see Causses

Causses (S. France); ♂ hd or pd, ♀ usu. pd; Fr. *Caussenarde*; vars: Cévennes, Garrigues Causses, Larzac, Lot Causses, Lozère Causses, Ségala; orig. of Lacaune and (with Lacaune) of Lozère Mountain; *cf.* Ardèche, Millery; not *Caussinard*

Caux (N. Normandy, France); m.lw.; orig. from Oxford Down, Cotswold, *et al.*, × local; Fr. *Cauchoise* — *2*:119

Central Pyrenean (France); w.m.(d.); Pyrenean type; occ. red, brown, or black; usu. hd; vars: Tarascon and Castillon (*q.v*); Fr. *Pyrenéenne centrale* or *des Pyrénées Centrales* — *16*:130-1

Černa Červena: see Karnobat

Cévennes (Lozère-Gard, S. France); m.cw.; var. of Causses with Barbary blood; sometimes brown or grey; ♂ hd; Fr. *Cévenole*; syn. *Rayole* — *2*:326, *4*:425, *6*:20

Chaffal: see Arabi

[Champagne]: var. of Berry — *2*:120-1, *7*:222

Champagne Merino (Aube, France): var. of Précoce; Fr. *Mérinos champenois*, or *de la Champagne* — *3*:29-30, 146

Chanthan (N.E. Kashmir, India); tr.cw.; various colours — *14*:195

Chapan (Sinkiang, China); sft.cw.m.; sim. to Darvaz

Charmoise (W.C. France); m.sw.; pd; orig. at La Charmoise farm, Loir-et-Cher, in mid 19th c. from Romney × (Berry-Merino-Sologne-Touraine); not *Charmois* — *7*:20, 222, *16*:32, *19*:72

Châtillonais (Côte d'Or, France): var. of Précoce; Fr. *Mérinos précoces du Châtillonais*: syn. *Burgundy Merino* — *3*:29-30, 146, *7*:203-4, *16*:33

Chechen: var. of Karachaev

Chelalla (Algeria): var. of Berber (? Barbary blood) — *13*:205

Cher Berry (C. France); m.mw.; pd; orig. from Merino (18th c.), Southdown, Leicester, and Dishley Merino — *2*:329, *7*:222, *19*:69, 72

(19th c.), × Champagne and Boischaut vars. of Berry; Fr. *Berrichonne du Cher*

Cherkasy (Middle Volga, U.S.S.R.): var. of Russian Long-tailed; Russ. *Čerkasskiĭ*; syn. *Cherkassian, Cherkasskoe*; not *Cherkassy, Circassian* — *1*:170, *11*:100, *14*:89-90

Chersolina: see Cres Island

Cheviot (England-Scotland); m.w.; ♀ pd, ♂ occ. hd; orig. at end of 18th c., ? with Leicester blood; Nor. *Sjeviot*; syn. *Border Cheviot, South Country Cheviot*; strain: West Country Cheviot; var: North Country Cheviot; orig. of Dala and Rygja (Norway) — *16*:130, 327

Chiana (Tuscany, Italy); m.d.w.; Apennine type; with Bergamo and Merino blood; It. *Chianina, Valdichiana*

Chilludo: see Criollo

China Fat-tailed: see Mongolian

Chios (Aegean); d.m.cw.; sim. to Kamakyuruk; ? orig. from Greek Zackel and Karaman; black spots on head and legs; ♂ hd, ♀ usu. pd; lt. fat at base; syn. *Khios, Sakiz* (Turkey) — *1*:170

Chiva: see Iran Thin-tailed

Choufalié: see Arabi

Chundi: see Thal

Chuntuk (Ukraine and Crimea, U.S.S.R.); m.cw.; sim. to Kalmyk; brown; pd, fr. — *1*:15, *3*:380-1

Churro (N.W. Spain); cw.d.; black spots on face and feet; ♂ hd, ♀ pd; vars: Andorra, Lacho. [*churro* = coarse wooled] — *1*:251, *2*:189, *3*:28, *12*:139, *18*:289, *19*:73

Churro (Portugal): cw. var. of Bordaleiro — *15*:220

Chushka (W. Ukraine and Bessarabia, U.S.S.R.); fur, d.; sim. to Poltava Fur-Milch; black or white; ♂ hd, 50 % ♀ hd (small), lt.; orig. from Russian Long-tailed; syn. *Tsushka* — *1*:24, *9*:113-4

Cigaja: see Tsigai

Circassian: see Cherkasy

Closewool: see Devon Closewool

Clun Forest (W. England); sw.m.; Shropshire blood; *cf.* Radnor and Kerry Hill; dark brown face and legs; pd — *13*:28, *17*:247

[Coburg] (S. Rhineland, Germany); m.w.; red head and legs; pd; Ger. *Koburg*; syn. *Eifel, Foxhead, Redhead* — *4*:38

Coimbatore (Madras, India); cw.m.; usu. white with black or brown head and neck; ♂ hd, ♀ pd; syn. *Kuruba* or *Kurumba* (Mysore)

Columbia (Idaho, U.S.A.); mw.m.; pd; sim. to Panama; orig. (1912 on) from Lincoln × Rambouillet. [? etym.] — *6*:209, *8*:374, *11*:27-8

Colombian Criollo: var. of Criollo

comeback (Australia) = Merino × (Longwool × Merino); *cf.* Polwarth

Comiso (Sicily); d.cw.m.; orig. from Maltese × Sicilian; It. *Comisana*; syn. *Redhead* — *4*:39

Common Albanian (S. Albania); small, plains var. of Albanian Zackel; often black spots on face and legs; syn. *Kommunal* — *4*:43, 309, *9*:95

Common Russian: see Russian Long-tailed

Congo (Belgian Congo); African long-legged type; brown or pied; hy, ♂ hd, ♀ pd, lt.; see also Baluba — *6*:279

Coquo: see Angola Maned

Corbières (Aude, S. France); w.

Corriedale (New Zealand); mw.m.; orig. (1880-1910) from Lincoln (or Leicester) × Merino; orig. of Canadian Corriedale; *cf.* Soviet Corriedale — *7*:393, *8*:246, 374, *11*:74-5, 99, *12*:81, *15*:74-5

Corsican; d.m.cw.; usu. black; ♂ hd, ♀ pd or hd; Fr. *Corse* — *5*:406, *7*:123

Cotentin (N. Manche, France); m.lw.; pd; sim. to Avranchin but larger; orig. from Leicester × local (Berca), 1830-1900; syn. *Race du littoral nord de la Manche* — *2*:119, *7*:222, 315

Cotswold (England); lw.m.; Leicester blood; pd; orig. (× Hampshire) of Oxford Down and (× Marsh) of German Whiteheaded Mutton; only 1 or 2 flocks in England — *1*:251

Crag, Cragg: see Limestone

Crau Merino: reddish var. of Arles Merino — *2*:215

Creole: see Criollo

Cres Island (Yugoslavia); d.; var. of Pramenka; It. *Chersolina* — *16*:127

Cretan: see Sitia, Sfakia

Cretan Zackel: see Greek Zackel

[Crevant]: var. of Berry; not *Crevat* — *2*:120-1, *7*:222

Criollo (Spanish America); orig. from Churro and Spanish Merino (1548-1812); syn. *Creole* (West Indies), *Chilludo* or *Pampa* (Argentina); vars: Colombian, Tarhumara (Mexico), Venezuelan, etc. [= native]

Croatian Zackel (Yugoslavia): see Karst, Lika, and Syrmia vars. of Pramenka — *11*:30

Cyprus Fat-tailed; d.cw.; Middle East Fat-tailed type, sim. to Awasi; usu. white with black (or brown) on face esp. eyes and nose, sometimes black, brown, or white; ♂ usu. hd, ♀ usu. pd — *3*:122-3, *4*:39, *6*:112

Cyprus mouflon: var. of red; syn. *Cyprian red*

Czech: see Bohemian

Czurkan: see Turcana

Dagestan Mountain (U.S.S.R); cw.m.; Caucasian fat-tailed type; black or white; ♂ usu. hd, ♀ pd or hd; vars: Andi, Avar, Dargin, Gunib — *15*:34

Dağliç (W. Anatolia); cw.m.d.; ♂ usu. hd, ♀ usu. pd, sft.: usu. white with coloured head and legs; ? orig. from Ak-Karaman and Kivircik; var: Gicik; not *Daglich, Daglic* — *8*:7-8, *15*:254

Dakshini (Orissa, India); cw. — *11*:204

Dala (Norway); w.; pd; sim. to Cheviot; orig. (1860-1920) from Cheviot, Leicester, and Old Norwegian; not *Dalas* — *2*:90-1, *6*:89, *18*:176

Dalarna: pelt var. of Swedish Landrace *8*:2-3

Dale-o'-Goyt: see Derbyshire Gritstone

Dalesbred: improved var. of Swaledale with Scottish Blackface blood

Dalmatian Zackel (Yugoslavia): see Cres Island, Krk Island, and Sinj vars. of Pramenka *1*:251, *7*:225

Damani (S. of N.W. Frontier Province, India); d.cw.; brown markings on head; pd, st.; syn. *Lama* *12*:139, *18*:285

Damara (N. of S.W. Africa): var. of Afrikaner; pied, white, black or brown; hy-cw.; usu. pd, lft.; not *Blinkhaar* *15*:111-2

[Danadar]: extinct or mythical var. of Karakul; not *Donadar* *1*:99

[Danish]; st.; ? orig. from Northern Short-tailed × Heath

Dargin: var. of Dagestan Mountain; black or white; syn. *Gad* *15*:34

Dartmoor (S. Devon, England); m.lw.; black spots on nose; pd; syn. *Improved Dartmoor* *3*:154, *18*:53

Darvaz (Tajikistan, U.S.S.R.); cw.m.; sim. to Chapan; black, white, or pied; ♂ usu. hd, ♀ pd, sft.

Debouillet (New Mexico, U.S.A.); fw.; recent orig. from Delaine Merino × Rambouillet *18*:410

Deccani (Bombay, India); cw.; black, white, or pied; ♂ usu. hd, ♀ pd *9*:221, *10*:101

defaid (Welsh) = sheep

Degeres (N. Caucasus and Kazakhstan, U.S.S.R.); m.; fr. or sft.; orig. from Shropshire × Kazakh Fat-rumped; not *Degres* *4*:185-6, *9*:316, *12*:22

Deiry: see Awasi

Delaine Merino; fw.(m.); var. of American Merino (C type)

Delimi: see Arabi

Derbyshire Gritstone (England); m.; Blackfaced Mountain type, sim. to Lonk but pd; ? orig. from Border Leicester × Lonk; syn. *Dale-o'-Goyt*

Desert Sudanese (N. of A.-E. Sudan): var. of Sudanese; brown or pied; usu. pd

desi (India) = local, indigenous

Devon: see Dartmoor, Devon Closewool, Devon Longwool, Exmoor Horn, South Devon

Devon Closewool (N. Devon, England); w.m.; pd; orig. in early 20th c. (flockbook 1923) from Devon Longwool × Exmoor Horn; syn. *Barnstaple* *3*:154, *18*:53

Devon Longwool (mid-Devon, England); lw.m.; sim. to South Devon, but smaller; pd; orig. from Leicester × Southam Nott and Bampton Nott; not *Longwoolled*, (but note "Devon Longwoolled Sheep Breeders' Society") *18*:53

Dhamda (W. Central Provinces, India); m.cw.; usu. black; not *Dhamada*

Dhormundi: see Godavari

Dilem, Dillène: see Arabi

Dishley, Dishley Leicester: see Leicester

[Dishley Merino] (France); m.mw.; orig. in mid 19th c. from Leicester × Merino; orig. of Ile-de-France; syn. *Grignon*

Djallonké: see West African Dwarf

Dobrich: var. of Bulgarian; Bulg. *Dobrička* *6*:1

Donadar: see Danadar

Donggala (Celebes, Indonesia); sim. to Javanese; hy, ft.; Du. *Vetstaarten* (= *fat tailed*) *Donggala*; not *Dongala, Donggola* *19*:26

Dorper (South Africa); m.; orig. (1940's) from German Mutton Merino × Dorset Horn; syn. *Dorman* *18*:410

Dorper (South Africa); m.; black head and feet; usu. pd, hy; orig. (1940's) from Dorset Horn × Blackhead Persian; syn. *Dorpers, Dorsian* *15*:213, *17*:105, *19*:71

Dorset Down (England); sw.m.; brown face and legs; pd; orig. from Hampshire Down in early 19th c.; obs. syn. *Improved Hampshire Down, West Country Down* *3*:154

Dorset Horn (England); sw.m.; syn. *Dorset* (U.S.A.); var: Pink-nosed Somerset *7*:393, *13*:144

Dorsian: see Dorper

Doukkala (S.W. Morocco); cw.; usu. white, also black or pied; hd; syn. *Doukkala-Abda* *5*:25, *6*:278

DOWN (S. England); coloured face; sw.pd; inc. Dorset Down, Hampshire Down, Oxford Down, Shropshire, Southdown, Suffolk (all with Southdown blood). [the Downs]

Drasciani: see Sudanese

[Drenthe] (Netherlands): var. of Dutch Heath; hd or pd *19*:202

Dubar (N.E. Persia); m.cw.; white with spots on head and legs; ♂ hd or pd, ♀ pd; ? orig. from Kurdi × Baluchi

Dubrovnik (Dalmatia, Yugoslavia); w.d.; sim. to Pag Island; pd; orig. from Merino × Pramenka *8*:373

Dugli: see Kizil-Karaman

Dumari (Baluchistan, India); cw.m.; coloured spots on head; hd (short), ft.; syn. *Harnai* *10*:165

dumba (Persia, Afghanistan, and Pakistan) = fat-tailed; see Iran fat-tailed, Afghan, Indian fat-tailed

Dun: see Tanface

Dupnitsa: var. of Bulgarian sim. to Radomir; mottled head and feet; not *Doupnitza*

[Dutch Heath]; vars. Drenthe, Kempen, and Veluwe *19*:202

Duzbai: var. of Karakul; not *Dusbay* *3*:391

DWARF: see Ushant (Breton Dwarf) and West African Dwarf

Dymyk (Azerbaijan, U.S.S.R.); cw.m.d.; Caucasian fat-tailed type, ? Mazekh × Karabakh

Džaïdara: see Jaidara

Dzharo: see Jaro

EAST AFRICAN FAT-TAILED; hy; inc. Abyssinian, Madagascar, and Masai, also Shoa (Abyssinia) and Tanganyika Long-tailed (lft.); *cf.* Arrit (Eritrea) and Afrikaner (S. Africa) *14*:230

East Friesian (Germany); d.; Marsh type; pd, st.; Ger. *Ostfriesisches Milchschaf*; syn. *East Friesland Milch, Milch sheep* — *2*:218, 322, 328, *11*:169, *19*:70

East Prussian: see Skudde

East Swiss: see Wildhaus

Edelbaev: var. of Kazakh Fat-rumped; not *Edilbaev* — *12*:24

Egyptian; cw.m.; Middle East fat-tailed type; white, black, brown, or pied; ♂ hd, ♀ pd; vars: Ausimi, Barki, Feflahi, Ibeidi, Rahmani, Saidi — *12*:113-4, *13*:28

Eifel: see Coburg

El Awas: see Awasi

Electoral Merino: see Saxony Merino; Ger. *Elektoralschaf*

Electoral-Negretti (Germany); fw.; orig. from Saxony Merino and Austrian Negretti; Ger. *Deutsches Edelschaf*

El Hammam (Morocco); Middle Atlas type; orig. from Berber, Tadla, and Beni-Guil; not *El Hamman* — *5*:145

Embrun (Hautes Alpes, S.E. France); m.cw.; local disappearing var. of lop-eared alpine type; pd; Fr. *Embrunaise*; syn. *Race des Alpes, Gap, Trièves*; not *Brown* — *2*:114, *6*:109

English Leicester: see Leicester

English Merino: see Anglo-Merino

Entrefino: see Raso

Entre-Sambre-et-Meuse (Belgium); m.cw. — *9*:286, *12*:60

Eppynt: see Specklefaced Mountain

Erdelyi Racka: see Transylvanian Zackel

Erek (Turkmenistan, U.S.S.R.); cw.; white, brown, or black; st.; syn. *Geoclan* — *10*:166

Erik (Armenia and Azerbaijan, U.S.S.R.); d.cw.; Caucasian fat-tailed type; orig. from Tushin (? × Lezgian); syn. *Herek* or *Herik* (Turkey)

Erzurum: see Mor-Karaman; not *Erzerum*

Escurial: former strain of Spanish Merino; not *Eskurial*

Exmoor Horn (N. Devon-Somerset, England); w.m.; syn. *Porlock*; orig. (with Devon Longwool) of Devon Closewool — *18*:53

Faeroes; Northern Short-tailed type; orig. from Iceland × Old Norwegian; not *Faroe* — *18*:16

Fagas (Pomorze, Poland); d.w.m.; white, brown, or black; pd; orig. from East Friesian × Merino; syn. *Kasubian*; not *Vagas*. [= lackey] — *5*:249-50

Farahani (W. C. Persia); cw.; Iran fat-tailed type, sim. to Kalaku; black nose and muzzle; ♂ hd, ♀ pd — *7*:122, *14*:22

Farleton Knott: see Limestone

Fartas: pd var. of Beni-Guil; not *Fartass* — *7*:20

Fatehpuri (United Provinces, India) — *14*:195

FAT-RUMPED (Middle East); white with black head; hy; inc. Hejazi (Arabia) and Somali (E. Africa); orig. of Blackhead Persian (S. Africa)

FAT-RUMPED (U.S.S.R.); cw.; inc. (1) Chuntuk (Ukraine), Kalmyk and Karanogai (N. Caucasus); (2) Kazakh (Kazakhstan), Kirgiz (Kirgizia), Turkmen and Saraja (Turkmenistan), Hissar and Pamir (Tajikistan), and Jaidara (Uzbekistan); Russ. *kurdyuk, kuiryuk*

Fat-rumped Merino (Kirgizia, U.S.S.R.); fw.; orig. from Précoce × Kirgiz Fat-rumped; syn. *Kurdyukos* — *8*:245, *13*:90

FAT-TAILED: — *7*:315-6, *9*:113-4

Europe: see Sicilian Barbary and Campanian Barbary (Italy), Chios (Greece), Voloshian and Malich (U.S.S.R.)

Asia: see Middle East fat-tailed (Tunisia to India), Mongolian, Donggala and Javanese (Indonesia), Siberian, Buryat-Mongolian and Darvaz (U.S.S.R.)

Africa: see Barbary and Egyptian, East African fat-tailed, Afrikaner

Fellahi: var. of Egyptian; syn. *Baladi*. [*fellah* = peasant]

Fellata: see Bornu

Fésüs: see Hungarian Combing Wool Merino

Fiemme (Venetia, Italy); Lamon × local Trento crosses; It. *Fiemmese* — *16*:127

Finnish; w.m.; Northern Short-tailed type — *6*:89

Flamande: see Flemish Marsh

Flanders, Flandrine: see Flemish Marsh

[Flemish Marsh] (Flanders); d.m.lw.; Marsh type; st.; Fr. *Flamande, Flandrine*; vars: Artois, Cambrai, Picardy, St. Quentin — *1*:251, *3*:41

Flitsch: see Plezzo

Fonte-Boa Merino (Portugal); fw.m.; orig. (1902-26) from Rambouillet × Spanish Merino at F.-B. zootechnical station; not *Fonte Bóa* — *5*:403, *11*:167

Forno: see Massa; It. *Fornese*

Foulbé: see Fulani

Four-horned: see Hebridean, Spanish Piebald; also Iceland, Karachaev

Fouta, Fouta Djallon, Fouta Jallon: see West African Dwarf

Fouta Toro: see Toronké

Foxhead: see Coburg; Ger. *Fuchskopf*

Foza: see Vicenza

Frabosa (Ligurian Alps, Italy); d.m.cw.; Apennine type; usu. a few coloured spots, sometimes brown; hd; It. *Frabosana*; syn. *Roascia* — *18*:174

French Merino: see Précoce, Rambouillet, Arles Merino

Friesian (Netherlands); d.; Marsh type, sim. to East Friesian; Du. *Friese Melkschaap*; syn. *West Friesian* — *1*:251

Friuli (Venetia, Italy); w.m.d.; lop-eared alpine type; It. *Friuliana* — *16*:127

Frutigen: see Black-Brown Mountain; Ger. *Frutigschaf*

Fuchskopf: see *Foxhead*

Fulani (Senegal to Cameroons); m.; West African Long-legged type; white, pied, or coloured; hd; Fr. *Peul* (*Peuhl, Peulh,* or *Peul-Peul*); syn. *Foulbé*; vars: Samburu, Toronké, Uda, Bornu (*q.v.*)

Gad: see Dargin

Gaddi: see Bhadarwah; not *Guddi*

Galloway Blackface (S.W. Scotland): strain of Scottish Blackface with finer wool; syn. *Newton Stewart*

Galway (Éire); m.lw. *9*:20

Gammelnorsk: see Old Norwegian (improved)

Ganjam (S. Orissa, India); m.; South India hairy type; brown or red; ? pd; syn. *Patna* *14*:150

Gap: see Embrun; Fr. *Gapois*

Garessio (Ligurian Alps, Italy); w.m.d.; It. *Garessina*; rare *3*:234, *18*:174

Garfagnana (N.W. Tuscany, Italy); d.m.(w.); Apennine type, sim. to Massa; ♂ hd, ♀ usu. hd; It. *Garfagnina* *17*:357, 358

Garha (N. Syria): see Ak-Karaman; not *Garha, Guerha*

Garhwali (N. United Provinces, India); cw.

Garrigues Causses (Gard and E. Hérault, S. France); m.; var. of Causses; Fr. *Caussenarde des Garrigues*; syn. *C. du Gard et de l'Hérault* *2*:213, 326

Gascony (S.W. France); local var. sim. to Landes; disappearing

Gatačka: see Lika

Gedek (Azerbaijan-Dagestan, U.S.S.R.): var. of Tabasaran *15*:34

Gentile (It.): see Improved

Georgian (U.S.S.R.); w.; ft.; orig. from Soviet Merino × Tushin; Russ. *Gruzinskii* *18*:285

German Blackheaded Mutton (N. and W. Germany); m.sw.; pd; orig. (1870-1914) from Hampshire Down + Oxford Down (+ Shropshire + Suffolk); Ger. *Deutsches Schwarzköpfiges Fleischschaf*; syn. *German Hampshire, Improved Black-face Mutton, Teutoburg* (Westphalia) *2*:214, 317, 323, 324, *3*:34, 266, *4*:423, *8*:48

German Heath: see Heath

German Improved Land (S. Germany); mw.m.; ♂ pd or hd, ♀ pd; orig. from Merino × Württemberg Land; Ger. *Deutsches veredeltes Landschaf*; syn. *German White-headed Land, Improved German Farm, Improved White-headed Land, Württemberg, Württemberg Bastard, Württemberg Improved Land, Württemberg Merino.* *7*:127, *9*:2-3, *10*:32, 165, *11*:233

[Note- in September 1950 the official name was changed to **Merino Landschaf**]

German Merino: inc. Austrian Negretti, Electoral-Negretti, Saxony; Russ. *Baldebukov*; see also Mutton Merino

German Mountain; inc. Goggel, Carinthian, and Steinschaf, bred towards Bergamo type; Ger. *Deutsches Bergschaf*, *6*:296, *7*:123, 314,

FAT-RUMPED (U.S.S.R.); cw.; inc. (1) Chuntuk (Ukraine), Kalmyk and Karanogai (N. Caucasus); (2) Kazakh (Kazakhstan), Kirgiz (Kirgizia), Turkmen and Saraja (Turkmenistan), Hissar and Pamir (Tajikistan), and Jaidara (Uzbekistan); Russ. *kurdyuk, kuiryuk*

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Frutigen: see Black-Brown Mountain; Ger. *Frutigschaf*

Fuchskopf: see *Foxhead*

Fulani (Senegal to Cameroons); m.; West African Long-legged type; white, pied, or coloured; hd; Fr. *Peul* (*Peuhl, Peulh,* or *Peul-Peul*); syn. *Foulbé*; vars: Samburu, Toronké, Uda, Bornu (*q.v.*)

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Hochgebirgsschaf *10*:102

German White-headed Land: see German Improved Land

German Whiteheaded Mutton (N.W. Germany); m.w.; pd; orig. in mid 19th c. from Cotswold × Marsh; Ger. *Deutsches weissköpfiges Fleischschaf*; syn. *Butjadingen, Oldenburg White Head, White-headed German, White-headed Oldenburg* *3*:266, *4*:423

Géryville (Algeria): var. of Berber; black head *2*:215

Gessenay: see Saanen

Gezira: see Northern Riverain

Gicik: var. of Dağliç

Gissar, Guissar: see Hissar

Glamorgan (S. Wales): larger var. of Welsh Mountain with tan face, bare belly, and kempy fleece (kemp often red); syn. *Nelson, South Wales*

Gmelin's sheep: see red

Godavari (N. Hyderabad, and Chanda, Central Provinces, India); m.; South India hairy type; white or reddish brown; ? pd; syn. *Dhormundi* *14*:150

Goggel (Bavaria); ? orig. from Bergamo × Zaupel; ? Zackel type; inc. in German Mountain *7*:123

Goitred: see Zunu

Gorodets: see Improved Gorodets

Gotland; cw.d.m.; var. of Swedish Landrace *8*:2-3, *13*:91

Goundoun (Fr. Niger, W. Africa): var. of Macina. [corruption of Goundam, a town in Macina] *7*:124

Grabs (Switzerland): see Brownheaded Mutton; orig. from Oxford Down × Wildhaus; Ger. *Grabser* *8*:375

Graubünden: see Bündner Oberland

Greek Zackel; d.m.cw.; various colours; syn. *Cretan Zackel, Macedonian, Parnassian*; vars: Argos, Karagunica, Katafygion, Levkas, Mytilene, Seres, Sfakia, Sitia, Skopelos, Thrace, Zakynthos; see also Chios, Karakachan, Karamaniko *18*:281

Greyface (Scotland-England): Border Leicester × Scottish Blackface, 1st cross; syn. *Mule, cross*

Grignon: see Dishley Merino

Grisons: see Bündner Oberland

Gritstone: see Derbyshire Gritstone

Guadalupe: former strain of Spanish Merino

Guddi: see Gaddi

Guerha: see *Garha*

Guinea: see West African

Guinea Long-legged: see West African Long-legged

Gujarati (Bombay, India); cw.; sim. to Bikaneri; syn. *Joria*

Gunib (Dagestan, U.S.S.R.): var. of Dagestan Mountain; black; ♂ hd, 25 % ♀ pd; subvar. Lak *5*:28, *8*:248, *15*:34, 35

Gurez (N. Kashmir, India); cw.d.; usu. white and pd; st. *10*:165

Gurgani (Asterabad, Persia); m.; Iran fat-tailed type: not *Gorgani*

Gurktal: var. of Carinthian — *9*:116

Hadjazi: see Hejazi

HAIRY, *i.e.* woolless

Asia: see Hejazi, South India hairy, Jaffna (Ceylon), Javanese and Donggala (Indonesia)

Africa: see African Long-legged, East African Fat-tailed, Afrikaner, Somali and Blackhead Persian, West African Dwarf

America: see West Indian, Morada Nova (Brazil)

Halfbred: see New Zealand Halfbred, Scottish Halfbred

Halhas: see Khalkhas

Haluk: see Hunia

Hamalé: see Sudanese

[Hamitic Long-tailed] (N.E. Africa); hy, ♂ hd, lop ears, thin tail; orig. of African long-legged; syn. *Ancient Egyptian*, *Ovis longipes palaeoaegypticus* — *11*:99, *14*:230

Hammam: see El Hammam

Hampshire Down (England); sw.m.; black-brown face and legs; pd; orig. in early 19th c. from Southdown × Wiltshire Horn and Berkshire Knot; orig. of Dorset Down, (× Cotswold) of Oxford Down, and (+ Oxford Down) of German Blackheaded Mutton; syn. *Hampshire* (U.S.A.) — *3*:154, *7*:393, *8*:253, *10*:31

Hamyan: see Beni-Guil

Han: see Hanyang

Hanyang (Shansi, China): large ft. var. of Mongolian; sim. to Tungchow; syn. *Han*, *Shantung* — *13*:144

Harcha: see Archa

Harnai: see Dumari; not *Hasnai*

Harrick: see N'eimi

Hasa, *Hasah*: see Kazakh

Hashtnagri: see Hastnagri

Hasnai: see *Harnai*

Hassan (Mysore, India); cw.; various colours; ♂ hd, ♀ pd; syn. *Kolar* — *10*:165

Hastnagri (N.W. Frontier Province, India, and Afghanistan); cw.m.d.; black face; pd, ft.; not *Hashtnagri* — *10*:101

Hazara: var. of Afghan

Heath (N.W. Germany); cw.; st.; Ger. *Heidschnucke*; grey hd and white pd vars.; see also Polish Heath and [Dutch Heath] — *3*:153, *5*:285-6

[Hebridean] (Scotland); Northern Short-tailed type; often 4-horned; syn. *Loaghtan*; extant vars: Manx, St. Kilda (crossed), Soay

Hedjazi: see Hejazi

Heidschnucke: see Heath; not *Heidschmucke*, *Heidschnukke*

Hejazi (Arabia); fat-rumped type (Middle East), sim. to Somali; white with black head; hy, pd; syn. *Khazi, Mecca*; not *Hadjazi, Hedjazi*

Hemşin (N.E. Turkey): var. of Karayaka

Herat: var. of Afghan

Herdwick (Lake District, N.W. England); cw.m.; lamb black face and legs, adult white; ♂ hd, ♀ pd; ? orig. [? = let out in herds, or = sheep pasture] — *3*:154

Hereford: see Ryeland

Herik, Herek; sft.; see Erik; sim. to Karaman

Herrik: see N'eimi

Hexham Leicester: see Bluefaced Leicester

Highland: see Scottish Blackface

Hirrik: see N'eimi

Hissar (Tajikistan, U.S.S.R.); m.cw.; brown; ? pd, fr.; Russ. *Gissarskiĭ*; syn. *Uzbek*; not *Gissar, Guissar* — *1*:17, 169, *10*:165

Hissar Dale (E. Punjab, India); sw.; orig. (? 1920's) from Australian Merino ($\frac{7}{8}$) × Bikaneri; flock of 300 only at Government Livestock Farm, Hissar — *11*:100, *16*:36

Horned Cragg: see Limestone

Hortobágy Racka: var. of Racka

[Hottentot] (S. Africa); hy, ft.; ? orig. from Semitic fat-tailed and Hamitic Long-tailed; orig. of Afrikaner — *7*:96

Houda: see Uda

Hu, Huchow: see Wusih

Hungarian Combing Wool Merino; fw.d.; orig. from Racka (+ Bergamo and Württemberg) graded up with Rambouillet; Hung. *Fésüs* (= *combing*) — *8*:1, *9*:115, *10*:31-2, *11*:28

Hungarian Mutton Merino; m.fw.; orig. from Hungarian Combing Wool Merino graded up with Précoce and German Mutton Merino — *8*:1, *9*:115, *11*:28

Hungarian Zackel: see Racka

Hunia: ? var. of Tibetan; syn. *Haluk*

Hurluck: see N'eimi

Ibeidi (Upper Egypt): var. of Egyptian; usu. brown head; syn. *Abidi*. [from Beni 'Ibeid]

Iceland; w.d.m.; Northern Short-tailed type; sometimes black, brown or pied; hd (sometimes 4 or more); orig. from Old Norwegian: var: Kleifa (pd) — *7*:2, *12*:171, *13*:205

Ideal: see Polwarth

Ile-de-France (N. France); m.mw.; pd; orig. (1921) from Dishley Merino (*i.e.* Leicester × Merino) — *3*:43, 150, *5*:403, *15*:112, *19*:71-2

Imeritian (W. Georgia, U.S.S.R.); cw.d.m.; Caucasian fat-tailed type; ♂ hd, lt-ft.; Russ. *Imeritinskiĭ* — *8*:246-7

Improved Apulian (Italy); fw.-mw.m.d.; ♂ hd, ♀ pd; orig. from Merino × Apulian; It. *Gentile di Puglia*; syn. *Apulian Merino, Italian Merino* — *3*:43, 234, *4*:309-10, *10*:33, *17*:357

Improved Ariano (Campania, Italy); d.w.m.; ♂ hd, ♀ usu. pd; orig. from Improved Apulian × local; syn. *Spanish Ariano* (It. *Spagnola arianese*), *Quadrella* — *3*:39

Improved Blackface Mutton: see German Blackheaded Mutton

Improved Black-headed Mutton-Wool (Switzerland): see Brownheaded Mutton; Ger. *Veredeltes schwarzköpfiges Fleischwollschaf*

Improved Calabrian (Italy); w.; orig. from Calabrian improved by Merino; It. *Gentile di Calabria* — *18*:284

Improved German Country, Farm, or *Land*: see German Improved Land

Improved Gorodets (Gorki, U.S.S.R.); w.m.; orig. from Russian Northern Short-tailed improved by Précoce — *14*:149-50

Improved Hampshire Down: see Dorset Down

Improved Haslingden: see Lonk

Improved Leicester: see Leicester

Improved Lucanian (Italy); Merino blood; It. *Gentile di Lucania*; syn. *Basilicata* — *18*:284

Improved Mongolian (Manchuria); Rambouillet × Mongolian — *8*:384, *9*:122-3

Improved White-headed Land: see German Improved Land

Improved White-headed Mountain: see White Swiss Mountain; Ger. *Veredeltes Weissköpfiges Gebirgsschaf*

INDIAN FAT-TAILED (N.W. Pakistan); Middle East fat-tailed type; inc. Baluchi, Bibrik, Dumari, Rakshani (Baluchistan) and Balkhi, Hastnagri, Peshawri, Tirahi, Waziri (N.W. Frontier Province); syn. *dumba, puchia*

Indre Berry (C. France); m.sw.; pd; orig. from Champagne var. of Berry; Fr. *Berrichonne de l'Indre* — *2*:120-1, *7*:221

Infantado: former strain of Spanish Merino

Ingush: var. of Karachaev

Iomud (Turkmenistan, U.S.S.R.): var. of Turkmen Fat-rumped

IRAN FAT-TAILED (Persia); Middle East fat-tailed type: see Arabi, Baluchi, Farahani, Gurgani, Kalaku, Kermani, Khurasani, Kurdi, Luri, Maku, Turki, Zandi; syn. *dumba, Persian Fat-tailed*

Iran Thin-tailed (Caspian-Elburz, Persia); m.cw.d.; Pers. *Zel*; syn. *Chiva, Mazanderani, Persian Thin-tailed* — *7*:122, *14*:22

Iraqi: see Awasi, Arabi, Kurdi; not *Iraki* — *7*:315-6

Irish Longwool: see Galway, Roscommon

Irish Shortwool: see Wicklow Mountain

Island Blackface (Hebrides): strain of Scottish Blackface with finer wool

Island Pramenka (Yugoslavia): see Cres Island, Krk Island; syn. *Island Zackel*; orig. (with Merino) of Pag Island

Italian Merino: see Improved Apulian

Jacob's: see Spanish Piebald

Jaffna (Ceylon); m.; ♂ usu. pd, ♀ pd; sim. to South India hairy type; various colours

Jaidara (Uzbekistan, U.S.S.R.); cw.m.; black, brown or grey; ♂ hd or pd, ♀ pd, fr.; Russ. *Džaĭdara* — *10*:166

Jalauni (United Provinces, India); cw.m.; face may have coloured markings; pd, long lop ears; not *Jaluan* — *9*:316, *18*:285-6

Jangli: see Bikaneri

Jaro (Azerbaijan, U.S.S.R.); d.cw.m.; Caucasian fat-tailed type; not *Dzharo*

Javanese (Indonesia); sim. to Donggala; hy, ft.; syn. *Madurese* — *7*:1, *11*:137, *19*:26

Jezersko-Solčava: see Solčava

Jhalawani: var. of Rakhshani

Jhelum Valley (S.W. Kashmir, India); cw.; usu. pied

Joria: see Gujarati

Jubbulpuri: see Bundelkhandi

Jura: see Black-Brown Mountain; former vars: [Berne] (black), [Solothurn] (brown) — *8*:375

Juručka: see Yuruch

Kabarda: var. of Karachaev

Kabarliavi: dense-wool var. of Karnobat

Kabyle: see Berber

Kachi (Kalat): var. of Baluchi

Kaghani (N. of N.W. Frontier Province, India); cw.; grey, brown, or black; lop ears; usu. pd, st. — *18*:285

Kalaku (N. C. Persia); cw.; Iran fat-tailed type, sim. to Farahani; black marks on face and legs; ♂ hd, ♀ pd; not *Kalakou, Kalakouh, Kalakuh* — *7*:122, *14*:22

Kalmyk (Astrakhan, U.S.S.R.); cw.m.; sim. to Chuntuk; fr.; Russ. *Kalmyckiĭ*; not *Kalmuck*

Kamakuyruk (N.W. Anatolia); lt. fat at base; Kivircik × Dağliç; *cf.* Pirlak; not *Kamakyuruk, Kamakuruk.* [= knife-blade tail] — *3*:154

Kambar: see Kombar

Kanaltal: var. of Carinthian; black ear tips and spectacles — *9*:116

Kandahar: var. of Afghan

Kangani: red var. of Tenguri; syn. *Kenguri*

Kangra Valley; tr.; inc. Biangi and Bhadarwah — *14*:195

Karabakh (Azerbaijan, U.S.S.R.); m.d.cw.; Caucasian fat-tailed type; dirty white or light brown; ♂ hd or pd, ♀ pd; not *Karabah, Karabagh*

Karacabey-Kivircik (N.W. Anatolia, Turkey); Kivircik × Mutton Merino crosses at Karacabey stud farm; syn. *Kirma* — *10*:168

Karachaev (North Caucasus, U.S.S.R.); cw.m.; Caucasian fat-tailed type; black; 0-4 horns; vars: Balkar, Chechen, Ingush, Kabarda, Ossetian; not *Karachai, Karatchayev* — *1*:173-4, *8*:248

Karadi, Karradi: see Kurdi

Karagunika (Thessaly): var. of Greek Zackel; not *Karagunica* — *8*:95

Karakachan (Balkans, esp. Macedonia); d.cw.; Zackel type; usu. black or brown, also white; ♂ hd, ♀ pd, st.; syn. *Kutsovlaški* (Yugoslavia), *Romanian Nomad* (Bulgaria), *Sarakatzan* (Greece); not *Karachenski, Karakatschenski*. [the Karakachan (= black shepherd) and Kutsovlach (= lame Vlach) are nomadic tribes speaking respectively Greek and Romanian] — *1*:251, *2*:208, *3*:41, *10*:235, *11*:28-9

Karakul (Uzbekistan, U.S.S.R.); fur, d.; ♂ hd, ♀ pd, ft.; syn. *Astrakhan, Bukhara*; vars: Arabi (black), [Danadar] (?), Duzbai, Kombar (brown), Shirazi (grey), Sur (agouti); orig. of Malich and of Land Karakul (Germany) — *1*:58, *2*:293, *11*:168, *17*:314

Karaman: see Ak-Karaman, Kizil-Karaman; not *Caraman, Karman, Karamane*

Karamaniko (Crete, Rhodes, etc.); Dağliç × Greek Zackel crosses; ft.; It. *Caramanitico* — *4*:425

Karanogai (Don, U.S.S.R.); cw.m.; sim. to Kalmyk; fr.; syn. *Manych, Nogai*

Karayaka (N. Anatolia); cw.m.d.; usu. white; hd or pd; lt.; var: Hemşin — *1*:4

Karman: see Karaman

Karnabet: see Karnobat

Karnah (N. Kashmir, India); sw.; ♂ hd, ♀ pd, st. — *10*:165

Karnobat (Bulgaria); d.w.; sim. to Kivircik; yellow-grey to black; ♂ hd, st.; orig. from black Tsigai; syn. *Černa Červena* (= black-red); vars: Kabarliavi (= dense wool), Rudavi (= soft wool) — *3*:41, *8*:36, *10*:235

Karnówka (Poland): white var. of Świniarka — *17*:246

Kärnter: see Carinthian

Karst (Istria, Yugoslavia); d.; var. of Pramenka; Croat, *Krš*; It. *Carsolina* — *16*:127

Kasubian: see Fagas; not *Cassubian*

Katafygion: var. of Greek Zackel; not *Kataphygion* — *11*:28-9

Kathiawari (N. Bombay, India); cw.d.; tan or black face; st. — *10*:165

Kazakh Fat-rumped (Kazakhstan, U.S.S.R., and Sinkiang, China); cw.m.; reddish brown; ♂ hd, ♀ pd; vars: Edelbaev, Temir, *et al.*; not *Kazak, Hasa, Hasah* — *11*:26, 27, *13*:27, 144

Kedabek Merino: see Azerbaijan Mountain Merino

[Keerie] (Caithness, Scotland); st.; ? Northern Short-tailed type; syn. *Rocky*

Kelantan (Malaya); w. — *7*:388-9

[Kempen]: var. of Dutch Heath — *19*:202

Kendal Rough: see Rough Fell

Kenga: red var. of Mandya; not *Keng* — *10*:165

Kenguri: see Kangani
Kentmere: see Rough Fell
Kent or Romney Marsh (England); lw.m.; pd; orig. from Old Romney Marsh; syn. *New Kent, Romney, Romney Marsh*; var: New Zealand Romney Marsh — *3*:384, *4*:307, *6*:20, *7*:393, *13*:144
Kermani (S.E. Persia); m.cw.; Iran fat-tailed type; black face; hd — *14*:22
Kerry (Éire); cw.; syn. *Kerry Mountain*; Scottish Blackface blood
Kerry Hill (Wales); sw.m.; *cf.* Clun Forest and Radnor; black spots on face and legs; pd — *10*:165, *14*:231, *17*:247
Kesbir: see *Mazekh*; not *Kesber* — *8*:8-9
Kesme: see Mazekh. [= crossbred]
Khalkhas (Outer Mongolia): var. of Mongolian; Russ. *Halhasskiĭ* — *5*:147
Khazi: see Hejazi
Khenchela (Algeria): var. of Berber
Khetrani: var. of Bibrik — *10*:237
Khios: see Chios
Khorosani, Khorassan: see Khurasani
Khurasani (E. Persia, and Baluchistan); m.cw.d.; Iran fat-tailed type; syn. (Baluchistan) *Taraki, Shinwari*; not *Khorosani, Khorassan* — *7*:122, *14*:22, *18*:285-6
Kirdi, Kirdimi: see West African Dwarf
Kirgiz Fat-rumped (Kirgizia, U.S.S.R.); cw.m.; brown or black; hd (E.) or pd (W.); not *Kirghiz* — *3*:29, *8*:245
Kirma: see Karacabey-Kivircik
Kisil-Karaman: see Kizil-Karaman
Kivircik (N.W. Turkey); m.d.cw.; sim. to Karnobat (Bulgaria); white, and black or brown vars.; usu. ♂ hd, ♀ pd, lt.; Turk. *Kıvırcık*; var: Karacabey (× Merino); crosses × Dağliç: see Kamakuyruk and Pirlak; not *Kivirçik, Kivirdjik* — *4*:426, *8*:7-8, *15*:254
Kizil-Karaman (E. Turkey); cw.m.d.; Middle East fat-tailed type, *cf.* Ak-Karaman; ♂ hd or pd; syn. *Dugli, Red Karaman, Turkish Brown*; var: (or syn.) Mor-Karaman (dark brown); not *Kisil-Karaman*. [*kizil* = red-brown] — *4*:426, *8*:7-8
Kleifa: pd var. of Iceland with Cheviot and/or Border Leicester blood — *13*:205
Koburg: see Coburg
Kolar: see Hassan
Kombar: golden-brown var. of Karakul; not *Cambar, Kambar* — *3*:391, *10*:166
Kommunal: see Common Albanian
Kordi: see Kurdi
Kosovo (Serbia, Yugoslavia): var. of Pramenka; black face and legs; ♂ hd, ♀ pd; Serbo-Croat, *Kosovska* — *4*:420
Krivovir (Serbia, Yugoslavia); st. var. of Pramenka; yellow head and legs — *4*:420

Krk Island (Croatia, Yugoslavia); w.d.m.; var. of Pramenka; ♂ hd, ♀ usu. pd; It. *Veglia* — *7*:223

Krš: see Karst

Krukówka: black var. of Świniarka; not *Krukowska*. [Pol. *kruk* = raven]

Kuchugurov: see Voronezh

Kucovlaški: see Karakachan

Kuibyshev (U.S.S.R.); orig. from Romney Marsh × Cherkasy, backcrossed to Romney Marsh — *18*:285

kuiryuk: see fat-rumped

Kuka (Sind, India); cw.d.; face usu. black; ♂ hd, ♀ pd, st.; not *Kooka* — *10*:165

Kulunda (Altai, Siberia); cw. pelt; black; sft.; ? orig. from Siberian, Mongolian, and Kazakh Fat-rumped — *13*:144

Kumukh: see Lak

Kumyk (N. Dagestan, U.S.S.R.); m.cw.; Caucasian fat-tailed type; brown; ♂ hd

Kuradi: see Kurdi

Kurdi (Kurdistan and N.E. Persia); m.cw.d.; black head and legs; pd, ft.; var. in Khurasan may be black or brown and ♂ may be hd; not *Karadi, Karradi, Kordi, Kuradi* — *7*:122, 315-6, *17*:211

kurdyuk: see fat-rumped

Kurdyukos: see Fat-rumped Merino

Kuruba, Kurumba: see Coimbatore

Kusman (Dagestan, U.S.S.R.): var. of Tabasaran

Kutsovlach, Kutzovlakh: see Karakachan

Kyasma (Armenia, U.S.S.R.); Caucasian fat-tailed type; orig. from Mazekh × Erik

Lacaune (Tarn, S. France); d.m.w.; Roquefort type; pd; ? orig. from Merino and Barbary × Causses; var: Camarès (Aveyron); syn. *Mazamet* — *2*:209, *3*:41, *4*:425, *5*:404, *16*:191

Lacho (Vascongadas and Navarre, Spain): var. of Churro; black face and feet; syn. *Basque, Biscay*; *cf.* Manech (France). [? etym.] — *12*:139, *13*:32, *17*:9

Lak (Dagestan, U.S.S.R.): var. of Gunib

Lakka: see West African Dwarf

Lama: see Damani

La Mancha: see Mancha

Lamochar: see Lohi

Lamon (Venetia, Italy); cw.m.; lop-eared alpine type; dark spots on face; var: Vicenza (with finer wool) — *16*:127

Lanark Blackface: strain of Scottish Blackface with coarser wool

Landes (S.W. France); m.cw.; coloured spots on head and legs; ♂ usu. hd; orig. from Pyrenean; Fr. *Landaise* — *2*:113-4, 325

Land Karakul (Germany); native graded up to Karakul ($\frac{31}{32}$) — *7*:316, *10*:101

Land-Merino (Germany): see Merino-Landschaf

Langhe (Piedmont, Italy); d.m.cw.; lop-eared alpine type; It. *della Langa*, or *delle Langhe* — *3*:152, 234, *18*:174, *19*:72-3

Lannemezan: see Aure & Campan

Lantras: see Swedish Landrace

Lara-Polisi (C. Albania); d.; var. of Albanian Zackel; black spectacles; ♂ hd, ♀ usu. pd (80-90 %); syn. *Polisi*, *Pied Polisi*. [*lara* = pied] — *6*:20, *9*:95, 118

Larzac (S.E. Aveyron, S. France); d.m.; var. of Causses; original Roquefort type; disappearing by spread of Lacaune — *2*:209, *3*:41, *7*:225

Laughton: see Loaghtan

Lauraguais (Toulouse, France); m.d.w.; syn. *Toulouse*; not *Lauragais*; disappearing by spread of Lacaune — *2*:113, *4*:428, *7*:224

Lecce (Apulia, Italy); Moscio type; It. *Leccese*; not *Lecca* — *3*:43, *4*:309-10

Lefkimi: see Levkas

Leicester (England); lw.m.; pd; orig. (1755-90) from Old Leicester; syn. *Bakewell*, *Dishley*, *English*, *Improved*, or *New Leicester*; contributed to formation of most British Longwool breeds — *7*:393, *10*:166, *13*:144

Leine (S. Hanover, Germany); w.m.; pd — *3*:154-5, *11*:233

Lessarkani: see Thal

Lettelle (S. Africa); m.fw.; orig. from Rambouillet *et al.* [? etym.] — *17*:247

Levant: see Préalpes du Sud

Levézou: see Ségala

Levkas (Ionian Sea): var. of Greek Zackel; syn. *Lefkimi*

Lezgian (Nukha, Azerbaijan, U.S.S.R.); m.cw.; Caucasian fat-tailed type; white, or greyish with coloured head and feet; ? pd; Russ. *Lezginskii*

Libyan: see Barbary

Lika (Croatia, Yugoslavia); var. of Pramenka; pied head and legs; syn. *Gatačka* — *4*:420, *8*:375

[Limestone] (Westmoreland, England); Blackfaced Mountain type but white face; sim. to Penistone; syn. *Cragg*, *Farleton Knott*, *Horned Cragg*, *Limestone Cragg*, *Silverdale*, *Warton Crag*

Limousin (C. France); m.w.(d.); pd

Lincoln Longwool (England); lw.m.; pd; orig. from Leicester × Old Lincoln; syn. *Lincoln* — *6*:109, *11*:205-6, *15*:149, 254

Linton: see Scottish Blackface

Lipe (Serbia, Yugoslavia); d.; var. of Pramenka; black head and legs; Serbo-Croat, *Lipska* — *4*:420, *8*:372

Lleyn (N.W. Wales); local var., nearly extinct; pd; ? orig. from Welsh Mountain with Border Leicester blood — *14*:232

Loaghtan: brown var. of Manx, or = Hebridean; not *Laughton*, *Lughdoan*. [Gaelic; = mouse-coloured]

Lockerbie Cheviot: see West Country Cheviot

Lohi (W. Punjab, India); cw.m.d.; head black or brown; long lop ears, pd, st.; syn. *Lamochar* — *10*:101, *11*:100

Long Island: see West Indian

[Longmynd] (England); black face; hd; orig. (with others) of Shropshire

Longwool: see British Longwool

Lonk (C. and S. Pennines, England); w.m.; Blackfaced Mountain type, sim. to Derbyshire Gritstone but hd; syn. *Improved Haslingden*. [lonk = coarse herbage]

LOP-EARED ALPINE (Alps); m.cw.-w.d.; pd; Roman nose, ears pendent; long legs; type breed is Bergamo (Italy); sim. breeds or derivatives are Biella, Friuli, Lamon, Pavullo, Varese, and Val Senales (Italy), Carinthian (Austria), German Mountain (Germany), and Solčava (Slovenia); following probably of same orig. tend to be smaller (esp. head and legs) with straighter profiles and smaller sloping rather than large pendent ears: Alpago, Cadore, Langhe, Paduan, Piedmont, and Val Badia (Italy), White Swiss Mountain (Switzerland), Barcelonette and Embrun (France); ? orig. from Sudanese; It. *Sudanica*; syn. *Alpine*

Lori, Lorri, Lory: see Luri

Lorraine (France); disappearing local type — *6*:18

Lot Causses (Lot, S. France); m.cw.; var. of Causses; black eyes and ears; pd

Louda: see Uda

Lourdes (Hautes Pyrénées, France); m.w.; West Pyrenean type; hd; — *16*:130-1
? orig. from Béarn with Merino blood; Fr. *Lourdaise*

Lowland: see Marsh; Ger. *Niederungsschaf*

Lozère Causses (E. Aveyron and W. Lozère, S. France); d.m.; var. of Causses; Roquefort type; Fr. *Caussenarde de la Lozère*; orig. (with Lacaune) of Lozère Mountain — *2*:209, *3*:41, *4*:425, *6*:20

Lozère Mountain (S. France); d.m.; orig. in 20th c. from Lacaune × Lozère Causses; Fr. *Montagnes de la Lozère* — *4*:425, *6*:20

Luan (Shansi, China); lft. var. of Mongolian

Lucanian: see Improved Lucanian

Lughdoan: see Loaghtan

Luma: see Ruda

Luri (W. Persia); m.cw.; Iran fat-tailed type; red hairs on head and legs; ♂ hd, ft.; not *Lori, Lorri, Lory* — *14*:22

Lushnja (C. Albania); sim. to Mati; not *Lushnia* — *9*:118

Luzein: see Bündner Oberland

Macedonian: see Greek Zackel; Karakachan; or Ovče Polje and Šar Planina vars. of Pramenka (Yugoslavia)

Macina (C. delta of Niger, Fr. Sudan, W. Africa); cw.; white, pied, or black; ♂ hd, ♀ hd (small) or pd, lt.; var: Goundoun (Niger Colony); not *Massina* — *7*:124, 281, *17*:107-8, 246-7

Macou: see Maku

Madagascar; m.; East African fat-tailed type; pied, often — *4*:397

black or red head; hy, ♂ hd or pd, ♀ pd; ? orig. from Sudanese and Somali; Fr. *Malgache*; syn. *Malagasy*

Madras: see South Madras

Madurese: see Javanese; Du. *Madoera*

Maimené: var. of Afghan — *9*:113-4

Maine, Maine-Anjou: see Bluefaced Maine, Whitefaced Maine; syn. *Bazougers*

Maku (Persian Azerbaijan); cw.; Iran fat-tailed type; some black spots; ♂ hd, ♀ pd; not *Macou* — *14*:22

Malagasy, Malgache: see Madagascar

Malich (Crimea, U.S.S.R.); fur, d.; black, white, or grey; ♂ hd, ♀ pd, ft.; orig. from Karakul; not *Maleech, Malych* — *1*:107, *3*:382-3, *9*:114

Malini (Jodhpur, India); cw.

Maltese; d.cw.; coloured markings on face; ? pd

Mancha (Spain); d.w.m.; Raso type; pd; Sp. *Manchega* — *13*:32, *17*:9, 11

Manche: see Avranchin, Cotentin

Mandya (Mysore, India); m.; South India hairy type; red patches; pd, st.; syn. *Bannur*; red var: *Kenga*; not *Manday* — *10*:165, *14*:89

Manech (S.W. Basque country, France); d.m.cw.; *cf.* Lacho (Spain); coloured face and legs; hd or pd; Basque, *Muthur belza* (= *black face*), *Muthur gorria* (= *red face*); not *Manesch.* [Basque; = John; men of Soule call those of Basse Navarre and Labourd 'Manech'] — *5*:406, *6*:108, *15*:112, *16*:130

Manx (Isle of Man): var. of Hebridean; var: Loaghtan (brown)

Manych: see Karanogai

Manze: var. of Abyssinian with woolly undercoat — *12*:114-5

Maoli (Rome, Italy); d.w.m.; orig. by G. Maoli from Improved Apulian × Upper Visso (1910 on) — *17*:359

Marathwada (S. Hyderabad, India); m.; South India hairy type, sim. to Nellore; black, red, or pied; ♂ hd, ♀ pd; not *Marhatwada*

Marco Polo's sheep: see argali

Maremma (Italy); mw.d.m.; sim. to Upper Visso; Merino blood; It. *Maremmana*; syn. *Spanish Mongrel* (It. *Bastarda spagnola*) — *18*:362

Marhatwada: see Marathwada

Marmoucha (Morocco): var. of Berber — *5*:26

MARSH (N. W. Europe); pd, st.; inc. [Flemish Marsh], Texel and Friesian (Netherlands), East Friesian and Wilstermarsch (Germany), Fagas (Poland); orig. (with Cotswold) of German Whiteheaded Mutton; Ger. *Marschschaf*; syn. *Lowland* — *1*:251

Marthod: see Thônes & Marthod

Masai (Tanganyika and Kenya, also Uganda); m.; East African fat-tailed type; red-brown; occ. pied; hy, ♂ hd or pd, ♀ usu. pd; sft., lft. or fr.; syn. *Tanganyika Short-tailed* — *6*:109, *9*:222, *13*:29, *18*:13

Masekh: see Mazekh

Masham (N. England): Wensleydale × Swaledale, 1st cross; syn. *Yorkshire cross* (Scotland)

Massa (Versilia, N.W. Tuscany, Italy); d.m.(w.); Apennine type, sim. to Garfagnana; grey or brown with darker head; hd; It. *Massese*; syn. *Forno* — *17*:140, 357, 358

Massina: see Macina

Mati (C. Albania); cw.d.; var. of Albanian Zackel; red head and legs and red hairs in fleece; syn. *Redhead* — *6*:20, *8*:3, *9*:95, 118

Maure (N. of Fr. W. Africa and Chad); West African Long-legged type, sim. to Tuareg; ♂ hd, ♀ pd; syn. *Arab, Mauritanian, Moor, Moorish*; vars: Tuabir (white or pied, short-haired) and Black Maure (long-haired) — *3*:40, *8*:132

Mauritanian: see Maure; not *Mauretanian*

Mayenne Blue: see Blueheaded Maine

Mayenne White: see Whiteheaded Maine

[Mazaev Merino] (S. Russia); fw.; orig. (in mid 19th c.) by P. D. Mazaev in S.E. Ukraine by improvement of Russian Infantado; orig. of Novocaucasian and Soviet Merinos

Mazamet: see Lacaune

Mazanderani: see Iran Thin-tailed; not *Mazendarani*

Mazar-i-Sharif: var. of Afghan

Mazekh (Azerbaijan); m.d.cw.; Caucasian fat-tailed type, sim. to Balbas; brown, black or white; ♂ hd, ♀ pd; syn. (Turkey) *Çandir, Kesbir*, or *Kesme* (= crossbred); not *Masekh, Mazech, Mazeh, Mazik* — *8*:8-9, *9*:318

Mecca: see Hejazi

Mecheri: var. of South Madras — *13*:205

Méchéria (Algeria): var. of Beni-Guil — *2*:215

Mele (Neuenkirchen, Germany); mw.m.; pd; orig. *c.* 1910 from Border Leicester × Merino. [*Me*rino-*Le*icester] — *4*:423, *8*:371-2

Mengli (Baluchistan): var. of Baluchi; not *Mengali, Menghi*

Mennonite (German Volga, U.S.S.R.); m.sw.; orig. from East Friesian

Meraisi: see Ausimi

MERINO (Spain); fw.; ♂ hd, ♀ pd; inc. American, [Anglo-Merino], Argentine, Arles, Australian, Black, Fonte-Boa, Hungarian, Improved Apulian, Mazaev, Mutton, Novocaucasian, Précoce, Rambouillet, Roussillon, Saxony, Shansi, Siberian, South African, Soviet, Spanish (original), Thibar, Turkish, etc. — *4*:186, *12*:166, *17*:247

Merinofleischschaf, Merino Meat, Merino Mutton: see Mutton Merino

Merino-Landschaf (Germany): see German Improved Land

Merino, Württemberg: see German Improved Land

Metaxomalicha: see Sitia

Metelini: see Mytilene

Metohija Whitehead: see Bardoka

Meusse = pd Précoce ♂

Middle Atlas (Morocco); mixed types (Berber, Tadla, and Beni-Guil); hd; inc. Bekrit, El Hammam, Timadit, Moulouya — *5*:145

Middle East fat-rumped: see fat-rumped type (Middle East)

MIDDLE EAST FAT-TAILED (N.E. Africa and S.W. Asia); cw.d.m.; white, white with black on face, black, brown, or pied; ♂ hd, ♀ pd; inc. Barbary (Tunis and Libya), Egyptian, Cyprus Fat-tailed, Awasi (Syria and Iraq), Arabi (Iraq), Kurdi, Karaman and Dağliç (Turkey), Caucasian fat-tailed, Iran fat-tailed, Indian fat-tailed; syn. *Semitic fat-tailed* — *7*:315-6, *9*:113-4, *14*:230

Mikhnov (Voronezh, U.S.S.R.): var. of Russian Long-tailed; not *Mihnov*

Milch (Germany): see East Friesian

Millery (S. Rhône, France); d.m.w.; local var. sim. to Larzac; pd; nearly extinct — *5*:148

Minusinsk: var. of Siberian

Modenese: see Pavullo

Modern Romney: see New Zealand Romney Marsh

Mogra (Jodhpur, India); cw.

Mölltal: var. of Carinthian

Mongolian (Mongolia, Manchuria, and N. and E. China); cw.m.; usu. white with black or brown head, also pied or self-coloured; ♂ hd, ♀ pd, ft.; syn. *China Fat-tailed*; major vars: Hanyang (Shansi), Khalkhas (Outer Mongolia), Tan (Ningsia), Wusih (Kiangsi-Chekiang); minor vars: Luan, Shouyang and Taiku (Shansi), Bait, Darkhat, Dyurbet, Khotogoit, Uryankhai (Outer Mongolia); orig. of Tungchow (Shensi) — *5*:146-7, *6*:18, *8*:384-5, *9*:122-3

Mongo-tibetan (E. Chinghai and S.W. Kansu, China); sometimes black head; hd, st. or sft.; orig. from Mongolian × Tibetan; syn. *Tibegolian* — *13*:144

Monselice: var. of Paduan with finer wool; It. *Monselesana* — *16*:127

Montadale (U.S.A.); mw.m.; orig. from Cheviot × Columbia (1933 on) — *13*:205

Montagnes de la Lozère: see Lozère Mountain

Moor (Turkey): see Mor-Karaman

Moor, Moorish (W. Africa): see Maure

Morada Nova (Ceará, Brazil); m.d.; red, white or pied; hy, ♂ pd or hd, ♀ pd; ? orig. from Bordaleiro — *11*:233, *13*:122, *15*:222

[Morfe Common] (England); sim. to Ryeland; coloured face; hd; orig. (with others) of Shropshire

Mor-Karaman: dark brown var. (or syn.) of Kizil-Karaman; not *Moor, Morekaraman*. [*mor* = dark brown] — *8*:8-9, *15*:254

Moroccan: see Beni-Ahsen, Beni-Guil, Berber, Doukkala, Middle Atlas, South Moroccan, Tadla, Zemmour

MOSCIO (S. Italy); d.cw.m.; long cw. type inc. Altamura, Calabrian, and Lecce. [? etym.]

Mosul, Mossul: see N'eimi

mouflon (Corsica and Sardinia) = *Ovis musimon* (Pall.); syn. *musimon, musmon*; not *moufflon, muflon* — *5*:26-7, 151-2, *8*:244

Moulouya (Morocco); Middle Atlas type; orig. from Berber and Beni-Guil — *5*:26, 145

Mountain Merino (N. Caucasus, U.S.S.R.); fw.; orig. from mouflon × Merino — *16*:200-1

Moussouli: see N'eimi

muflon: see mouflon

Mug, Muggs, Mugs: see Teeswater

Mule: see Greyface

Multinipple (U.S.A.); orig. (1923-41) from Bell Multinippled × (Southdown × Rambouillet), + Suffolk × above — *1*:251, *2*:330-1, *12*:115, *14*:154

musimon, musmon: see mouflon

Muthur belza, Muthur gorria: see Manech

Muthur churria: see Basque

Mutton Merino (Germany); m.fw.; pd; orig. *c.* 1904 from Précoce imported *c.* 1870; Ger. *Merinofleischschaf*; syn. *Merino Meat, Merino Mutton* — *2*:325, *4*:423, *6*:295, *7*:316-7, *9*:114, *12*:140

Mylambadi: var. of South Madras — *13*:205

Mytilene (Aegean): var. of Greek Zackel; not *Metelini*

Na'ami, Naimi: see N'eimi

Najdi: see Nejdi

Nalps: see Bündner Oberland

Namakwa (N.W. of Cape Province and S. of S.W. Africa); var. of Afrikaner; white or pied; hy-cw.; ? hd or pd, lft.; orig. (with Blackhead Persian) of Ronderib; not *Nama, Namaqua*

napo: see bharal

Nar: see Black Maure

Navajo (Arizona - New Mexico - Utah, U.S.A.); cw.; hd or pd; orig. from Churro; not *Navaho* — *8*:243, 378, *11*:232, *12*:142

Navargade: see Telingana

Neahami: see N'eimi

Nedjed: see Nejdi

Negretti: former strain of Spanish Merino: Sp. *Negrete*; not *Negreo*

N'eimi (Mosul, Iraq): superior var. of Awasi; syn. (Syria) *Harrick, Herrik, Hirrik, Hurluck, Mosul, Mossul, Moussouli*; not *Na'ami, Naimi, Neahami*. [= good] — *7*:205, 315-6, *9*:113-4, *17*:211

Nejdi (Arabia); cw.; black with white head; pd, l(f)t.; syn. *Arabian long-tailed, Bedouin*; not *Najdi, Nedjed, Nidjy*

Nellore (Madras, India); m.; South India hairy type; white or brownish; ♂ hd, ♀ pd, wattles, st. — *10*:101, *14*:150

Nelson: see Glamorgan

New Kent: see Kent or Romney Marsh

New Leicester: see Leicester

New South Wales Merino: see Australian Merino
Newton Stewart: see Galloway Blackface
New Zealand Halfbred: Longwool (Lincoln, Leicester, or Romney) × Merino, F_1 or F_2
New Zealand Merino: strain of Australian Merino
New Zealand Romney Marsh: var. of Kent or Romney Marsh (1900-10); syn. *Modern Romney* — *9*:114, *16*:33-4
Nidjy: see Nejdi
Nigerian Dwarf: see West African Dwarf
Nilgiri (Madras, India); m.mw.; pd; ? orig. in early 19th c. from Southdown and Merino × local hairy
Nilotic (A.-E. Sudan, S. of lat. 12°N.): var. of Sudanese; white, usu. with black and tan patches; hd or pd
Nizhnedevitsk: see Voronezh
Nogai: see Karanogai
Noir de Bains, Noir du Velay: see Velay Black
Nolinsk: var. of Russian Northern Short-tailed
Nord de la Manche: see Cotentin
Norfolk: see Old Norfolk Horned
North, North Country: see Scottish Halfbred
North Country Cheviot (N. Scotland): var. of Cheviot (1792 on); syn. *Caithness*, or *Sutherland Cheviot* — *16*:327
Northern Riverain (Gezira, A.-E. Sudan): var. of Sudanese intermediate between Desert Sudanese (north) and Nilotic (south)
NORTHERN SHORT-TAILED (N. Europe); sim. to Heath; inc. Faeroes, Finnish, [Hebridean], Iceland, Old Norwegian, Orkney, Russian, Shetland; orig. of [Danish] and Swedish Landrace — *13*:205
North Nigerian Fulani: see Uda
Norwegian: see Dala, Old Norwegian, Rygja
No-tail (U.S.A.); w.m.; orig. from Kazakh Fat-rumped (imported in 1913) and European breeds — *8*:375-6
Noventa: var. of Paduan, larger and finer wool; It. *Noventana* — *16*:127, *17*:39
[Novocaucasian Merino] (N. Caucasus, Russia); fw.; orig. (late 19th c.) from Mazaev Merino improved by German Merino and Rambouillet; syn. *New Caucasian, New Caucasian Mazaev*; orig. of Soviet Merino
Nuba Maned (Nuba Mountains, A.-E. Sudan): local var.; all colours but black; hy, ♂ hd, ♀ pd

Oberhasli-Brienz: see White Swiss Mountain
Oetztal: var. of Carinthian; not *Ötztal* — *7*:123
Oftshe Hulmski: see Panagyurishte
Old Berkshire: see Berkshire Knot
Oldenburg White Head: see German Whiteheaded Mutton
[Old Leicester]; orig. of Leicester
[Old Lincoln]; orig. of Lincoln Longwool

Old Norfolk Horned (England); syn. *Blackface Norfolk Horned*; orig. (× Southdown) of Suffolk; nearly extinct

Old Norwegian (Norway); w.; Northern Short-tailed type; usu. white; hd or pd; Nor. *Gammelnorsk* — *18*:176
"wild" var: Nor. *Vildsau*; syn. *Sunnhordland*; orig. of Iceland, Faeroes, and improved Old Norwegian
improved var: Nor. *Spaelsau* (= *bobtail sheep*)

[Old Romney Marsh]: orig. of Kent or Romney Marsh

Old Southdown: see Sussex

oorial: see urial

Oparina (Pskov, U.S.S.R.); m.w.; ♀ pd; orig. from English Mutton breeds × local Baltic; Russ. *Oparinskiĭ* — *3*:390-1

Oran: var. of Algerian Arab

Orecchiuta: see Sicilian Barbary

Orkney (Scotland); Northern Short-tailed type; sim. to Shetland; syn. *Ronaldshay*; *c.* 2000 on North Ronaldshay only — *7*:291, *17*:360

Osemi: see Ausimi

Ossetian (Caucasus, U.S.S.R.): var. of Karachaev; Russ. *Osetinskiĭ*

Ossimi: see Ausimi

Otter: see Ancon

Ouda: see Uda

Ouessant: see Ushant

Ouled Jellal (Algeria): var. of Algerian Arab; not *Ouled Djellal*

Ousimi: see Ausimi

Ovče Polje (Macedonia, Yugoslavia); st. var. of Pramenka — *4*:420

Oxford Down (England); sw.m.; dark brown face and legs; pd; orig. about 1830 from Cotswold × Hampshire Down (and Southdown); syn. *Down-Cotswold*; orig. (+ Hampshire Down) of German Blackheaded Mutton and (+ Grabs) of Swiss Brownheaded Mutton; syn. *Oxford* (U.S.A.), *Oxfordshire Down* — *3*:154, *7*:393, *13*:144, *18*:411

Padova: see Paduan

Paduan (Venetia, Italy); d.m.w.; lop-eared alpine type; It. *Padovana*; vars: Monselice, Noventa — *1*:251, *16*:127, *17*:39

Pag Island (Croatia, Yugoslavia); w.; sim. to Dubrovnik; st.; Croat, *Paška*; ? orig. from Merino × Pramenka; not *Pashka*, *Pog* — *4*:420, *12*:140, *15*:255

Pagliarola (S. Italy); w.m.d.; ♀ pd. [=straw-eater] — *3*:43

Pagota: see Alpago

Pahang (E. Malaya); w.; sim. to Kelantan; ♂ usu. hd

Pamir (Tajikistan, U.S.S.R.); cw.m.; sim. to Kirgiz Fat-rumped

Pamir argali: var. of argali

Pampa: see Criollo

Panagyurishte: var. of Bulgarian; coloured; Ger. *Talschaf*; — *1*:251, *10*:235

syn. *Oftshe Hulmski, Sredna Gora*; not *Panagiurîste, Panaguirishte*

Panama (Idaho, U.S.A.); mw.m.; pd; sim. to Columbia; orig. (1912 on) from Rambouillet × Lincoln. [exhibited at Panama-Pacific Exposition, San Francisco, 1915] *8*:374

Par (W. Punjab, India); cw.

Parai: see Tirahi

Parasi: see Barazi

Pardailhan (Hérault, S. France); disappearing

Parnassian: see Greek Zackel

Pashka: see Pag

Patna, Patnai: see Ganjam; not *Patnia*

Paular: former strain of Spanish Merino

Pavullo (Emilia, Italy); m.w.d.; Bergamo blood; ♂ hd; It. *Pavullese*; syn. *Modena*

[Peat] (Switzerland); remains found in neolithic lake dwellings; orig. of Bündner Oberland and Steinschaf; syn. *Turbary*; Ger. *Torfschaf* *6*:17

Peluk: see Silinga

[Pembroke Hill] (Wales): local var. of Welsh Mountain, with browner face and hd ♀; extinct in 1930's; syn. *Prescelly Mountain*

Penistone (S. Pennines, England); cw.; Blackfaced Mountain type, sim. to Lonk but white face; sim. to Limestone; syn. *Whiteface Woodlands, Woodlands Horned*; not *Woodland*; nearly extinct *14*:150

Pentala (Japan); Indian orig. *2*:332

Peppin: strain of Australian Merino, developed at Messrs. Peppin's stud, Wanganella, New South Wales (founded 1861); ? longwood blood; syn. *Wanganella*

Perales: former strain of Spanish Merino

Persian (S. Africa): see Blackhead Persian

Persian fat-tailed: see Iran Fat-tailed

Persian Thin-tailed: see Iran Thin-tailed

Perthshire Blackface: strain of Scottish Blackface with coarser wool

Peshawri (N.W. Frontier Province, India); cw.m.; ft.

Pešter: see Sjenica

Petit Oranais: see Beni-Guil

Petzen: var. of Carinthian *9*:116

Peuhl, Peul, Peulh, Peul-Peul: see Fulani

Pialdo (Alemtejo, Portugal); fw.; name coined for dominant black Merino. [*pi*gmented *Ale*mtejo *do*minant]

[Picardy]: var. of Flemish Marsh *1*:251, *5*:403

Pied (W. Africa): see Uda

Piedmont (Italy); cw.m.d.; lop-eared alpine type, not uniform; usu. white and pd; inc. Savoy; It. *Piemontese alpina* *1*:251

Pied Polisi: see Lara-Polisi

Pink-nosed Somerset: var. of Dorset Horn; syn. *Somerset Horn*

Pirlak (N.W. Anatolia); sft.; Dağliç × Kivircik; *cf.* Kamakuyruk. [tail shape]

Pirot (Serbia, Yugoslavia); m.; var. of Pramenka *4*:420

Piva (Montenegro, Yugoslavia): var. of Pramenka; Serbo-Croat, *Pivski*

Pleven Blackhead: var. of Bulgarian; not *Plevin, Plevna* *1*:251, *10*:235

Plezzo (Julian Alps, Italy); d.cw.; white (70 %) or black; usu. pd; It. *Plezzana*; syn. *Flitsch* *16*:127

Plovdiv: var. of Bulgarian *10*:235

Poitou (France); Fr. *Poitevine*; disappearing

Polish Heath; cw. pelt; *cf.* Heath (Germany); grey with black head; ♂ hd, ♀ pd, st.; Pol. *Wrzosówka* *5*:249, *7*:313-4, *8*:1, *17*:246

Polish Zackel (Carpathians); cw.d.; Pol. *Cakiel*; vars: Tatra (hd) and Gorce Zackel (usu. pd) *16*:129

Polisi: see Lara-Polisi

Polje: see Ovče Polje

Polled Merino (Australia) *8*:372

Polled Rambouillet (U.S.A.) *2*:123-4

Poltava Fur-Milch (Ukraine); fur, d.; sim. to Chushka; black or grey; ♂ hd, ♀ 20-25 % hd; orig. from Russian Long-tailed; vars: Reshetilovka, Sokolka

Polwarth (Australia); mw.; orig. from Merino × (Longwool × Merino); *cf.* comeback; syn. *Ideal*; hd and pd vars. *4*:39, *7*:393

Pomeranian (Germany-Poland); cw.; sim. to Skudde; white or grey, with black head; pd; Ger. *Pommersches Landschaf* *5*:279, *15*:178

Porakani: see Thal

Porlock: see Exmoor Horn

Pramenka (Yugoslavia); m.cw. (d.); Zackel type; syn. *Yugoslavian Zackel*; vars. inc. Privor and Vlašić (Bosnia); Karst, Lika, and Syrmia (Croatia); Cres Island, Krk Island, and Sinj (Dalmatia); Ovče Polje and Šar Planina (Macedonia); Piva (Montenegro); Bardoka, Kosovo, Krivovir, Lipe, Pirot, Sjenica, and Svrljig (Serbia); orig. (with Merino) of Dubrovnik and Pag Island (Dalmatia). [*pramen* = staple or lock, hence *pramenka* = with open fleece] *4*:420, *6*:188, *7*:225, *11*:167

Préalpes du Sud (Drôme-Hautes Alpes, S.E. France); m.; pd; syn. *Levant, Quint, Sahune, St. Nazaire, Savournon, Valdrôme* *2*:114, *3*:147, *16*:129, *18*:286

Preanger (W. Java, Indonesia); w.; st.; orig. from Australian Merino × Javanese *19*:26

Précoce (France); fw.m.; ♂ hd or pd (= Meusse), ♀ pd; orig. in 19th c. from Rambouillet with Leicester blood; Fr. *Mérinos précoce*; vars: Champagne, Châtillonais, Soissonais. [*précoce* = early maturing] *3*:29-30, 146, *7*:127, *19*:71

Prescelly Mountain: see Pembroke Hill; not *Precelly*

Privor (Bosnia, Yugoslavia): var. of Pramenka *6*:296

Prong Horn: see Zackel
puchia: see Indian fat-tailed
Puglia: see Apulian
Push-te-koh (N.W. Punjab, India); not *Pusht-i-Koh* *8*:208
PYRENEAN (France); inc. West Pyrenean (Basque, Béarn, Lourdes, Aure & Campan) and Central Pyrenean (Tarascon and Castillon); see also Roussillon Merino, Manech; Fr. *Races des Pyrénées*, or *Pyrénéennes*; orig. of Landes *16*:130-1
Pyrnai (W. Ukraine, U.S.S.R.): var. of Voloshian; ♂ hd, ♀ hd (short) or pd, shorter tail

Quadrella: see Improved Ariano
Quint: see Préalpes du Sud

Racka (Hungary); d.m.cw.; Zackel type; vertical corkscrew horns; syn. *Hungarian Zackel*; var: Hortobágy; not *Rasko*, *Ratzka*. [= Zackel] *3*:234-5, *6*:17, *11*:28
Radnor (Wales); m.w.; *cf.* Welsh Mountain, Kerry Hill, and Clun Forest; grey face and legs; ♂ hd or pd, ♀ pd; syn. *Radnor Forest*
Radomir: var. of Bulgarian sim. to Dupnitsa; mottled head and feet
Rahmani (Lower Egypt): var. of Egyptian; brown, fading with age; earless. [from Rahmaniya]
Rakhshani (Baluchistan, India); cw.d.m.; black, white or pied ; ♂ hd, ♀ pd, long lop ears; ft.; vars: Jhalawani, Sarawani; not *Rakshini* *18*:285-6
Rambouillet (France); fw.m.; orig. from Infantado strain of Spanish Merino, at Bergerie Nationale de Rambouillet near Paris, imported 1786; Fr. *Mérinos de Rambouillet*; polled strain (U.S.A.) *1*:100-1, *2*:123-4, *3*:33, *18*:286
Rasko: see Racka
RASO (Spain); m.w.; inc. Andalusian, Aragon, Castilian, Mancha, Segura, Talavera; ? orig. from Churro and Merino; syn. *Entrefino* (= *medium fine*), *Cruza* (= *crossbred*) *13*:32, *15*:179, *17*:9, *18*:283, *19*:75
Rava (W. Puy-de-Dôme, C. France); m.cw.; white with black spots on extremities, or black; pd; not *Ravas*
Rayole: see Cévennes
red (Middle East) = *Ovis orientalis* Gmelin; vars: Cyprus mouflon, Armenian, Anatolian, and various Persian; syn. *Gmelin's*, *O. ophion* Guenter, *O. gmelini* Blyth *5*:26-7, 151-2
Redhead (Albania): see Mati
Redhead (Germany): see Coburg; Ger. *Fuchskopf*
Redhead (Sicily): see Comiso
Red Karaman: see Kizil-Karaman
Rehamma-Sghrana; South Moroccan type; orig. from Tadla × Berber; not *Rehamna-Sraghna*
Reshetilovka (Ukraine, U.S.S.R.): var. of Poltava Fur-Milch; black; Russ. *Rešetilovskii* *9*:113-4

[Rhiw Hill] (S. Caernarvon, Wales): local var. sim. to Welsh Mountain but black or mottled face and pd; extinct in 1930's; not *Rhuy*

Rhön (C. Germany); w.m.; black head; pd — *2*:319, *4*:38, *8*:133

Rhuy: see Rhiw Hill

Rila: var. of Bulgarian; syn. *Rilomonastirska* — *1*:251

Roascia: see Frabosa

Roccia (Upper Adige, Italy); cw.m.; white (60 %), black (37 %) or brown (3 %); orig. from, or = Steinschaf. [= rock] — *3*:382, *16*:127

Rocky: see Keerie

Rocky Mountain: see bighorn

Romanian Nomad: see Karakachan

Romanian Zackel: see Ţurcana

Romanov (Yaroslavl, U.S.S.R.); pelt, cw.; grey; hd or pd; orig. from Russian Northern Short-tailed — *4*:195, *5*:33-4, *9*:317, *14*:87

Romeldale (California, U.S.A.); mw.m.; orig. (1915 on) from New Zealand Romney × Rambouillet — *6*:209, *8*:374

Romnelet (Alberta, Canada); mw.m.; orig. (1935-47) from Romney Marsh × Rambouillet — *16*:229-30, 231

Romney, Romney Marsh: see Kent or Romney Marsh

Romsdown (Tasmania); orig. from Southdown × Romney — *8*:375

Ronaldshay: see Orkney

Ronderib Afrikaner (W. of Cape Province, South Africa); m.; hy, ♂ hd, sft.; orig. (1870 on) from Blackhead Persian × Namakwa Afrikaner; vars: Blinkhaar (= smooth hair), Steekhaar (= rough hair). [round rib] — *3*:42

ROQUEFORT TYPE (S. France); *i.e.* milk used for R. cheese; inc. Larzac (original type), Lozère Causses, Lacaune, and Ségala; Basque, Béarn, Manech and Corsican also used — *2*:209, 3:34, 41, *5*:406

Roscommon (Éire); lw.m.; pd; syn. *Irish Longwool, Roscommon Longwool*; Leicester blood — *8*:36-7

Rough Fell (N.W. England); cw.; Blackfaced Mountain type; syn. *Kendal Rough, Kentmere, Rough*; very local

Roussillon Merino (E. Pyrenees, France); disappearing — *16*:130-1

Roussin: see Berca

Roux-de-Bagnes: see Black-Brown Mountain; syn. *Bagnes*

Ruda (N.E. Albania); w.d.m.; var. of Albanian Zackel; syn. *Luma*; not *Rouda*. [= wavy (wool)] — *6*:20, *8*:3, 328, *9*:95, 118

Rudavi: soft-wool var. of Karnobat

Russian Long-tailed; m.cw.; black or white; ♂ hd, ♀ pd; Russ. *Prostoĭ derevenskiĭ dlinno-toščehvostyĭ* (= *Common village long-thin-tailed*); syn. *Common Russian, Common Long-tailed*; vars: Bityug, Bokino, Cherkasy, Mikhnov; orig. of Poltava Fur-Milch — *1*:17, 170, *7*:128-9

Russian Northern Short-tailed (N. European U.S.S.R.); pelt, cw.; black, grey, white, or pied; ♂ usu. hd, ♀ usu. pd; Russ. *Severnyĭ korotkohvostyĭ*; var: Nolinsk; orig. of Romanov and Improved Gorodets — *5*:33-4

Ruthenian Zackel (Trans-Carpathian Ukraine); cw.d.m.; sim. to Transylvanian Zackel; ♂ hd, ♀ pd — *4*:423-4

Ryeland (England); sw.m.; pd; syn. *Hereford*. [= sandy, rye-growing land in S. Hereford] — *7*:393, *13*:144, *17*:247

Rygja (Rogaland, Norway); sw.; pd; orig. from Cheviot × Old Norwegian with Leicester or Oxford Down blood — *2*:90-1, *18*:176

Saanen: see Black-Brown Mountain; sim. to Simmental; Fr. *Gessenay*; syn. *Saanerland*

Sahel: see West African Long-legged

Sahune: see Préalpes du Sud

Saidi (Upper Egypt): var. of Egyptian; pd. [= valley, *i.e.* of Nile]

St. Gallen: see Wildhaus

St. Girons: see Castillon; Fr. *St. Gironnaise*

St. Kilda: var. of Hebridean

St. Nazaire: see Préalpes du Sud

[St. Quentin]: var. of Flemish Marsh

Sakiz: see Chios; not *Sakis, Sakkes*

Salamali: see Ak-Karaman

Sambre-et-Meuse: see Entre-Sambre-et-Meuse

Sambuco (Ligurian Alps, Italy); w.m.; sim. to Garessio but larger — *18*:174

Samburu (Fr. Sudan): var. of Fulani; maroon; long horizontal horns; Fr. *Sambourou*

Samur: see Tabasaran

Saraja (Turkmenistan, U.S.S.R.); cw.m.; grey; fr.; Russ. *Saradžinskiĭ*; not *Saradgy*

Sarakatzan: see Karakachan

Sarawani: var. of Rakhshani

Sarda: see Sardinian

Sardi: var. of Tadla with black eyes and nose

Sardinian; d.cw.m.; sometimes brown or black; ♂ hd, ♀ pd; It. *Sarda*; syn. *Cagliari*; large lowland, medium hill, and small mountain vars. — *3*:43, 234, 388, *5*:280, *8*:373, 380, *16*:326, *17*:357

Šar Planina (Macedonia, Yugoslavia): st. var. of Pramenka; syn. *Šar Mountain*; not *Schar Planina* — *4*:420

Savournon: see Préalpes du Sud

Savoy: var. of Piedmont; It. *Savoiarda*

Saxony Merino (Germany); fw.; orig. from Escurial (with some Negretti and Infantado) strain of Spanish Merino imported 1765-1815; Ger. *Sächsisches Elektoralschaf*; syn. *Electoral Merino*; orig. of Australian Merino

Schnalser: see Carinthian

Schwyz: see White Swiss Mountain; syn. *Uri*

Scottish Blackface (Scotland and N. England); cw.m.; Blackfaced Mountain type; syn. *Blackface, Blackfaced Highland, Linton, Scottish Mountain, Scotch Blackface*; — *1*:105, *4*:43-4, *8*:39, *14*:23

strains inc. Lanark and Perthshire (coarser wool), Galloway and Island (finer wool)

Scottish Greyface: see Greyface

Scottish Halfbred (Scotland-England); Border Leicester × Cheviot, 1st cross; syn. *Baumshire, North, North Country* — *1*:173

Scottish Soft-wool: see Tanface

Scutari: see Shkodra; not *Skutari*

Seeboden: see Solčava; Ger. *Seebodner*

Seeland: var. of Carinthian; Ger. *Seeländer* — *4*:278, *9*:116

Seeland-Solčava: see Solčava

Ségala (Aveyron, S. France); d.; var. of Causses; Roquefort type; syn. *Ségala-Levezou* — *2*:209, *3*:41

Segura (Murcia, Spain); m.w.; Raso type; Sp. *Segureña* — *13*:32, *15*:179

Semitic fat-tailed: see Middle East fat-tailed

Semmeri: var. of South Madras

Senese: see Siena

Serbian Zackel (Yugoslavia): see Bardoka, Kosovo, Krivovir, Lipe, Pirot, Sjenica, and Svrljig vars. of Pramenka

Seres (N.E. Greece): var. of Greek Zackel; syn. *Serrai*; not *Serres* — *11*:28-9

Sevlievo: var. of Bulgarian; black head and legs; not *Svlievo*

Sfakia (W. Crete): var. of Greek Zackel; usu. white; ♂ often pd, ♀ pd; syn. *Adromalicha*; not *Sphakia* — *4*:425

sha: see urial

Shafali, Shaffal: see Arabi

Shansi Merino (China); fw.; orig. from Merino × Mongolian — *6*:18

Shantung: see Hanyang

shapo: see urial

Shetland (Scotland); w.m.; Northern Short-tailed type; white or moorit (brown), also black or grey; ♂ hd, ♀ pd; purebreds rare — *13*:65-6, *14*:23, *18*:15

Shinwari: see Khurasani

Shirazi: grey (lethal when homozygous) var. of Karakul; not *Shiraz* — *2*:210, 212-3, *3*:382-3, *18*:58

Shirvan (Azerbaijan, U.S.S.R.); m.d.cw.; Caucasian fat-tailed type, (? crossbred); brown, black, white, or pied

Shkodra (N.W. Albania); cw.d.; var. of Albanian Zackel; yellowish; It. *Scutari* — *5*:404, *6*:20, *8*:328, *9*:95, 118

Shoa: var. of Abyssinian with woolly undercoat and lft. — *3*:390, *14*:230

SHORT-TAILED:

Europe: see Northern Short-tailed, Heath and Marsh

Asia: see Tibetan, Erek (Turkmenistan) and many Indian breeds, *e.g.* Bhadarwah, Damani, Gurez, Karnah, Kuka, Lohi

Shouyang (Shansi, China): var. of Mongolian

Shropshire (England); sw.m.; black-brown face and legs; pd; orig. from Southdown × Cannock Chase, Longmynd, Morfe Common, etc. — *7*:393, *13*:144, *17*:247

Shumen: var. of Bulgarian; coloured; Bulg. *Šumen*; not *Schumen, Shuman* — *1*:251, *5*:381, *10*:235

Siberian (S. Siberia, U.S.S.R.); cw.; black; sft.; local vars: Minusinsk, Tuva, *et al.*; see also Buryat-Mongolian, Kulunda, Telengit — *7*:129

Siberian Merino: var. of Soviet Merino; orig. (early 20th c.) from Mazaev and Novocaucasian Merinos × Siberian; syn. *Siberian Soviet Merino* — *5*:27

Siberian Rambouillet (Altai, U.S.S.R.); fw.m.; orig. (1920 on, at Rubtsovsk) from Rambouillet × Siberian Merino; syn. *Soviet Rambouillet of Siberian type* — *13*:27, *14*:88

Sicilian; d.cw.m.; sometimes black marks on face; pd; orig. (with Maltese) of Comiso — *1*:251, *4*:39

Sicilian Barbary: var. of Barbary; It. *Barbaresca di Sicilia*; syn. *Orecchiuta* (= *long-eared*) — *4*:39

Siena (Tuscany, Italy); Apennine type; It. *Senese*

Sikhim (India); m.cw.; ♂ hd; syn. *Bera*; not *Sikkim*

Silinga: ? var. of Tibetan; syn. *Peluk*

Silverdale: see Limestone

Simmental: see Black-Brown Mountain; sim. to Saanen

Sinj (Dalmatia, Yugoslavia): var. of Pramenka — *11*:28

Sitia (E. Crete): var. of Greek Zackel; coloured or spotted; ♂ hd, ♀ pd (50 %) or hd; syn. *Metaxomalicha* — *4*:425

Sjenica (Serbia, Yugoslavia): var. of Pramenka; black mouth, ears, and eyes; syn. *Pešter*; not *Sjenichka* — *4*:420

Sjeviot (Norway): see Cheviot

Skopelos (Aegean): var. of Greek Zackel; not *Scopelos* — *11*:28-9

Skudde (E. Prussia); cw.; sim. to Pomeranian; usu. hd

Soay: var. of Hebridean; not *Soa* — *3*:153, 388

Socotra (Indian Ocean); earless

Sofia White: var. of Bulgarian; black head and feet

Soissonais (Aisne, France): var. of Précoce; Fr. *Mérinos précoce du Soissonais* — *3*:29-30, 146, *16*:32

Sokolka (Ukraine, U.S.S.R); var. of Poltava Fur-Milch; grey (lethal when homozygous) or black; Russ. *Sokoljskiĭ*; not *Sokolov, Sokolsky* — *3*:382-3, *5*:34-5, *9*:113-4, *14*:231-2

Solčava (Slovenia, Yugoslavia); m.d.w.; lop-eared alpine type; orig. from Carinthian × Bergamo; syn. *Jezersko-Solčava* (= *Seeland-Solčava*), *Seeboden, Sulzbach, Sulzbach-Seeland*; not *Solcava, Soltschava* — *4*:420, *6*:188

Sologne (C. France); m.sw.; sim. to Berry; greyish with red-brown head and legs; pd; Fr. *Solognote* — *2*:115, *6*:208, *7*:222-3

[Solothurn]: brown var. of Jura

Somali (Somalia; also Kenya); fat-rumped type (Middle East), sim. to Hejazi; white with black head; hy, pd; var: (or syn.) Blackhead Persian (S. Africa) — *3*:154, *5*:2, 406

Somerset, Somerset Horn: see Pink-nosed Somerset

Sopravissana: see Upper Visso

South African Merino; fw.; orig. (1798 on) from Spanish, Saxony, Rambouillet and American Merino but chiefly from Australian Merino — *1*:246, *2*:321, *17*:138

South Albanian: see Common Albanian

[Southam Nott] (England); orig. (+ Bampton Nott and × Leicester) of Devon Longwool; not *Southern Notts*. [= pd]

South Australian Merino: strain of Australian Merino

South Country Cheviot: see Cheviot

Southdale (Vermont, U.S.A.); m.w.; pd; orig. (1930 on) from Southdown × Corriedale — *8*:244, *12*:81, 115

South Devon (S. Devon and Cornwall, England); lw.m.; sim. to Devon Longwool but larger; pd; syn. *South Dum* — *18*:53

Southdown (England); sw.m.; grey-brown face and legs; pd; orig. from Sussex in late 18th c.; basis of Down breeds — *3*:147, 154, *6*:17-18, *7*:393, *10*:31, *13*:144

Southdown Norfolk: see Suffolk

South Dum: see South Devon

Southern (W. Africa): see West African Dwarf

"Southern Goat" (Algeria): see Tuareg

SOUTH INDIA HAIRY; m.; inc. Ganjam, Godavari, Mandya, Marathwada, Nellore, South Madras, Tenguri; *cf.* Jaffna (Ceylon) — *14*:150

South Madras (India); m.; South India hairy type; sim. to Nellore but smaller and red or brown; vars: Mecheri, Mylambadi, Semmeri; syn. *Madras, Madras and South Indian, Southern Madras* — *9*:221

South Moroccan type; hd; inc. Rehamma-Sghrana and Zembrane; orig. from Tadla × Berber

South Suffolk (New Zealand); orig. from Suffolk and Southdown — *9*:220

South Wales: see Glamorgan

Soviet Corriedale (U.S.S.R.); mw.m.; orig. (1926-36) from Lincoln × Rambouillet — *6*:294

Soviet Merino (U.S.S.R.); fw.; orig. (20th c.) from Mazaev and Novocaucasian Merinos improved by Rambouillet; vars: Caucasian, Siberian; orig. of Soviet Rambouillet, Mountain Merino, Azerbaijan Mountain Merino — *9*:115-6, *11*:101-2, *15*:142

Soviet Rambouillet (U.S.S.R.); fw.m.; orig. (1920 on) from local Merinos improved by Rambouillet; inc. Askanian, Caucasian, and Siberian Rambouillet — *11*:101-2, *15*:142

Spaelsau: see Old Norwegian (improved)

Spanca (Romania); orig. from Merino × Tsigai; not *Spanga*. [? etym.] — *8*:3, *11*:232

Spanish Ariano: see Improved Ariano; It. *Spagnola arianese*

Spanish Merino (Spain); fw.; white, also black var.; former strains: Escurial, Guadalupe, Infantado, Negretti, Paular, Perales; nomadic (*trashumante*) and non-nomadic (*estante*) types; orig. of Merino type; orig. (with Churro) of Entrefino — *3*:28, *13*:32, *15*:179, *17*:9, 11

Spanish Mongrel: see Maremma; It. *Bastarda spagnola*

Spanish Piebald (England); w.m.; often 4-horned; orig. ? Spanish, ? Hebridean; syn. *Jacob's, Spotted*

Specklefaced Mountain (Brecon, Wales): local var. sim. to Cardy Welsh Mountain but with grey-mottled face; syn. *Eppynt*

Sphakia: see Sfakia

Spotted: see Spanish Piebald

Sredna Gora: see Panagyurishte

Srem: see Syrmia

Stara Zagora: var. of Bulgarian — *10*:235

Stavropol Merino (N. Caucasus, U.S.S.R.); fw.; orig. (1950) from Novocaucasian Merino (1923) improved by Rambouillet (1928), and Australian Merino (1936) — *19*:207

Steekhaar: kempy var. of Ronderib Afrikaner. [= rough hair]

Steigar (N. Norway); w.; orig. from North Country Cheviot × local — *18*:176

Steinschaf (Austria-Bavaria); cw.; sim. to Bündner Oberland; orig. from Peat; inc. in German Mountain; syn. *Salzburg Steinschaf*; orig. of (or syn.) Roccia (Italy). [= rock sheep] — *1*:251, *4*:278 *6*:296, *7*:123

Steppe Voloshian (N. Caucasus and S.W. Siberia): typical var. of Voloshian; ♂ usu. hd

Stogoş (Romania); Ţurcana × Tsigaí crosses; not *Stogosa, Stogosch, Stogoso.* [? etym.] — *8*:3, *11*:232

Sudanese (A.-E. Sudan); d.m.; African long-legged type; hy, lop ears, lt.; syn. *Amalé, Drasciani, Hamalé*; ? orig. of lop-eared alpine; vars: Desert or northern (large, brown or pied, usu. pd), Nilotic or southern (small, white, hd or pd), and Northern Riverain or Gezira (intermediate); see also Zaghawa — *7*:284, *14*:230

Sud de la Manche: see Avranchin

Suffolk (England); sw.m.; black face and legs; pd; orig. from Southdown × Old Norfolk Horned in early 19th c.; syn. *Blackface, Southdown Norfolk* — *3*:154, *13*:144

Sulzbach: see Solčava

Šumen: see Shumen

Sunnhordland: see Old Norwegian ("wild"); not *Sundhordland*

Sur: agouti var. of Karakul

[Sussex] (England); syn. *Old Southdown*; orig. of Southdown

Sutherland Cheviot: see North Country Cheviot

Svensk Lantras: see Swedish Landrace

Svishtov: var. of Bulgarian; not *Svistov* — *10*:235

Svrljig (Serbia, Yugoslavia): var. of Pramenka; Serbo-Croat, *Svrljiški* — *18*:413-4

Swaddle: see Swaledale

Swaledale (Pennines, England); cw.m.; Blackfaced Mountain type; syn. *Swaddle*; var: Dalesbred

Swedish Landrace; w.m.; st.; orig. from Northern Short-tailed; Swed. *Svensk Lantras*; syn. *Swedish Native*; vars: Dalarna, Gotland — *8*:244-5, *11*:168, *13*:91

Świniarka (Poland); w.d.; ♂ hd, ♀ pd, st.; vars: Karnówka (white), Krukówka (black); not *Swinarka*. [*świnia* = pig] — *1*:250, *5*:249-50, *6*:187, *8*:*1*, *15*:112-3

Swiss Mountain: see Black-Brown Mountain, White Swiss Mountain

Syrian: see Awasi

Syrmia (Yugoslavia): var. of Pramenka; Croat, *Srem* — *4*:420

Tabasaran (Dagestan, U.S.S.R.); m.d.cw.; Caucasian fat-tailed type; black or white; often earless, ♂ hd or scurs, ♀ pd; vars: Gedek, Kusman — *15*:34

Tadla (Morocco); m.cw.; hd; vars: Beni-Meskine, Sardi, Zaïan — *6*:278, *7*:221

Tadmit (Tunisia); var. of Algerian Arab — *4*:423

Taiku (Shansi, China): var. of Mongolian

Talavera (Toledo, Spain); w.; Raso type; Sp. *Talaverana* — *17*:9

Talschaf (Bulgaria): see Panagyurishte

Tan (Ningsia, China): var. of Mongolian — *13*:144

[Tanface] (Scotland and N. England); *cf.* Welsh Tanface; displaced by Blackfaced Mountain (late 18th c. in N. Scotland); syn. *Dun, Dunfaced, Scottish Soft-wool*

Tanganyika Long-tailed; m.; various colours; hy, pd, often earless, lft.; syn. *Ugogo* — *6*:109, *7*:315, *9*:222, *11*:30

Tanganyika Short-tailed: see Masai

Taraki: see Khurasani

Tarascon (France); m.w.; var. of Central Pyrenean; often coloured spots on extremities; hd; Fr. *Tarasconnaise*; syn. *Ariège*; *cf.* Andorran — *5*:279, *16*:130-1

Targhee (Idaho, U.S.A.); mw.m.; pd; orig. (1926 on) from Rambouillet × (Lincoln × Rambouillet), + Rambouillet × [Corriedale × (Lincoln × Rambouillet)]; not *Targee*. [Targhee National Forest] — *8*:374, *11*:28, *15*:112

Targhi, Targi, Targui: see Tuareg

Tarhumara (Mexico): var. of Criollo

Tasmanian Merino: strain of Australian Merino; orig. from Saxony Merino; syn. *fine-wool*

Tauter (Norway); sw.; ? orig. from Merino and British breeds; nearly extinct. [island in Trondheim Fjord]

Tavetsch: see Bündner Oberland

Teeswater; orig. and now var. of Wensleydale; syn. *Mugs*

Tekin (Turkmenistan, U.S.S.R.): var. of Turkmen Fat-rumped

Telangana: see Telingana

Telengit (Altai, Siberia); cw.; sim. to Mongolian; usu. white with black or brown head; ft. — *14*:230-1

Telingana (Hyderabad, India); cw.m.; usu. black; syn. *Navargade*; not *Telangana*

Temir: var. of Kazakh Fat-rumped

Tenguri (S. Bombay, India); m.; South India hairy type; red; var: Kangani — *11*:204

Teutoburg: see German Blackheaded Mutton

Texel (Netherlands); m.lw.; Marsh type; orig. from Leicester, Lincoln, etc. × local — *1*:251, *2*:332, *13*:1, *19*:202

Thal (W. Punjab, India); cw.m.; pied, white, or black; pd, long lop ears; syn. *Buti, Chundi, Lessarkani, Porakani, Tilari*. [= sandy tract] — *18*:285

Thanet (Kent, England); orig. from Southdown and Romney — *5*:145

Thibar (Tunisia); w.; orig. (1911 on) from Algerian × (Crau Merino × Algerian); syn. *Black Merino* — *4*:190, *7*:223

Thônes & Marthod (Savoy, France); cw.m.; black face and feet; hd

Thrace: var. of Greek Zackel

Thribble Cross (California, U.S.A.); mw.; orig. from Delaine Merino × (Cotswold × American Merino) (1903 on). [= 3-way cross]

Tian Shan argali: see arkhar

Tiaret (Oran, Algeria): var. of Berber — *13*:205

Tibegolian: see Mongo-tibetan

Tibetan (Tibetan Plateau); cw.; usu. black or brown head; usu. hd, st.; ? vars: Barwal, Cago, Hunia, Silinga — *13*:144

Ţigae, Ţigai, Ţigaia, Ţigaie: see Tsigai

Tilari: see Thal

Timadit (Morocco); Middle Atlas type; orig. from Berber, Tadla, and Beni-Guil; not *Timadhit* — *5*:145

Tirahi (N.W. Frontier Province, India); w.m.; ft.; syn. *Afridi, Parai*

Tlyarota (Dagestan, U.S.S.R.): var. of Avar

Torfschaf: see Peat

Torki: see Turki

Toronké (Senegal and Fr. Sudan): var. of Fulani; white or spotted; syn. *Fouta Toro, Large Peul*

Touabir: see Tuabir

Touareg: see Tuareg

Toulouse: see Lauraguais; Fr. *Toulousaine*

Tounsint: see Tousimet

Tousimet: var. of Beni-Guil; not *Tounsint*

Transdon (U.S.S.R.): var. of Voloshian; usu. pd; Russ. *Krupnyi zadonskoĭ* (= *large Transdon*)

Transylvanian Zackel: var. (or syn.) of Ţurcana; sim. to Ruthenian Zackel; ♂ hd, 30 % ♀♀ hd; Hung. *Erdelyi Racka* — *6*:17

Trièves (S.E. Isère, S.E. France): see Préalpes du Sud or Embrun — *2*:114

Trun (C. Calvados, N. France); m.w.; ? orig. from Caux × Sologne; red head and legs; Fr. *Trunière* or *Trunoise*

Tsigai (S.E. Europe); sw.d.m.; black (orig. of Karnobat) and white (usu. blackfaced) vars.; ♂ hd, ♀ pd; Rom. *Ţigae*, Ger. *Zigaja*, Pol. and Serbo-Croat, *Cigaja*, Fr. *Tzigaïa*; not *Tsigaia*, *Tsigay*. [? etym.] *1*:251, *2*:325, 328, *3*:41, 268, *7*:125, *8*:3, 49

Tsuguti (Japan) *2*:332

Tsushka: see Chushka

Tuabir (W. Africa): usu. white (also pied) short-haired var. of Maure; Fr. *Touabire*; syn. *White Arab*, *White Maure*

Tuareg (Sahara); m.; West African Long-legged type, sim. to Maure; white, pied, or fawn; ♂ hd, ♀ pd; Fr. *Touareg*; sing. *Targ(u)i*; syn. *Ara-Ara* (Fr. Niger), "*Southern Goat*" (Algeria) (pd) *13*:205, *17*:107-8

Tungchow (Shensi, China); m.cw.; var. of (or orig. from) Mongolian, sim. to Hanyang; white; pd, wattles, large ft. *13*:144

Tunis: see American Tunis

Tunisian: see Barbary

Turbary: see Peat

Ţurcana (Romania); d.cw.; Zackel type; black, grey, or white; syn. *Romanian Zackel*: var.: (or syn) Transylvanian Zackel; not *Turkana*, *Tzourcana*, *Zurkana*. [= Zackel] *2*:325, *4*:42, 188, *6*:17, *8*:3, 39, 49, *9*:123-4, *11*:170

Turkana: see Ţurcana

Turki (N.E. Persia); m.cw.; Iran fat-tailed type; black round eyes; ft.; not *Torki*, *Turky* *14*:22

Turkish Brown: see Kizil-Karaman

Turkish Merino (N.W. Anatolia); Kivircik graded up with Mutton Merino (via Karacabey-Kivircik)

Turkmen Fat-rumped (U.S.S.R.); cw.; usu. grey; vars: Iomud, Tekin

Tushin (Georgia, U.S.S.R.); cw.m.; Caucasian fat-tailed type; ft.-fr.; Turk. *Gürcü* = (*Georgian*), *Tuj*, *Tunc*, *Kars*; orig. of Erik *8*:246

Tuva (Tannu-Tuva, Mongolia): var. of Siberian *7*:97

Twisted Horn: see Zackel

Tzigae, *Tzigai*, *Tzigaia*, *Tzigaya*: see Tsigai

Tzourcana, *Tzurckana*, *Tzurkana*: see Ţurcana

Uda (N. Nigeria, Fr. Niger, Chad, and N. Cameroons): pied var. of Fulani; syn. *Bali-Bali* (Fr. Niger), *Bororo* (Chad), *Houda*, *Louda*, *North Nigerian Fulani*, *Ouda*, *Pied* *7*:223-4

udad: see aoudad

Uggowitz: var. of Carinthian *4*:278, *9*:116

Ugogo: see Tanganyika Long-tailed

Upper Visso (Central Apennines, Italy); mw.d.m.; sim. to Visso but larger, and finer wool; Merino blood; ♂ hd, ♀ pd; It. *Sopravissana* *3*:39, 43, 234, *10*:33, *17*:357

Uri: see Schwyz; Ger. *Urner Landschaf*

urial (Central Asia) = *Ovis vignei* Blyth; vars: arkal (Ust-Urt); Baluchistan; urin, sha, or shapo (Astor and Ladakh); Punjab; not *oorial* — *5*:26-7, 151-2, *8*:244

Ushant (Brittany, France); m.cw.; white or grey (larger) and brown or black (dwarf); Fr. *Ouessant*; syn. *Breton Dwarf*; (larger white var. due to imports from mainland)

Ussy: see Awasi

Uzbek (Tajikistan, U.S.S.R.): see Hissar

Vagas: see Fagas

Valachian (E. Moravia and Slovakia); d.m.cw.; Zackel type; white or black; syn. *Wallachian* — *4*:277, *16*:128, 232

Valachian, Valahian, Valakhian (U.S.S.R.): see Voloshian

Valais Blacknose (Switzerland); cw.m.; hd; Fr. *Valais Nez Noir*, Ger. *Walliser Schwarznasenschaf*; syn. *Blacknosed Swiss, Visp* — *2*:406, *10*:33-4

Val Badia (Bolzano, Italy); cw.m.; lop-eared alpine type; black (50 %), brown (10 %), or white — *16*:127

Valdichiana: see Chiana

Valdrôme: see Préalpes du Sud

Valley: see Jhelum Valley

Val Senales (Upper Adige, Italy); cw.m.; lop-eared alpine type; syn. *Val d'Ultimo* — *3*:382, *16*:127

Van Rooy White Persian (Orange Free State, S. Africa); m.; hy, pd, fr.; orig. (20th c.) by J. van Rooy from Blackhead Persian × (Rambouillet × Ronderib Afrikaner) — *17*:359

Varese (Lombardy, Italy); w.m.; lop-eared alpine type; It. *Varesina* — *17*:360-1

Veglia: see Krk

Velay Black (Haute Loire, C. France); m.w.; black with white forehead and tail tip; pd, lt.; Fr. *Noire du Velay*; syn. *Bourbonnais, Noir de Bains* — *2*:209-10, *3*:146-7

[Veluwe]; cw.: var. of Dutch heath; usu. pd — *19*:202

Venezuelan Criollo: var. of Criollo

Vermont Merino: var. of American Merino (A type)

Versilia: see Massa

Vicanere: see Bikaneri

Vicenza: var. of Lamon with finer wool; It. *Vicentina*; syn. *Foza* — *16*:127

Victoria Merino: see Australian Merino

Visp: see Valais Blacknose

Visso (Central Apennines, Italy); mw.d.m.; Apennine type; sim. to Upper Visso but smaller, poorer fleece, and often black or pied; It. *Vissana* — *3*:43

Vlašić (Bosnia, Yugoslavia): var. of Pramenka — *4*:420

Vojvodina Merino (Yugoslavia)

Volokolamsk (Moscow, U.S.S.R.); m.sw.; orig. (1936 on) from (Hampshire Down × Tsigai) × Northern Short-tailed — *19*:206

Voloshian (Carpathians to Urals and Caucasus, U.S.S.R.); m.cw.; Zackel type; white or black; ♂ hd or pd, ♀ pd, lft.; Russ. *Valahskiĭ* or *Vološskiĭ*; syn. *Valachian, Valahian, Valakhian, Volosh, Walachian, Wallachian Zackel, Woloschian*; vars: Steppe (Caucasus and Siberia), Transdon, Voronezh, Pyrnai — *1*:173, *3*:41, *7*:129-30

Voronezh: var. of Voloshian; pd; syn. *Kuchugurov, Nizhnedevitsk*

Walachian, Wallachian (U.S.S.R.): see Voloshian

Walachian, Wallachian (Czechoslovakia): see Valachian

Walliser Schwarznasen: see Valais Blacknose

Wanganella: see Peppin

Warton Crag: see Limestone

Watni (N.W. Frontier Province, India); cw.

Waziri (N.W. Frontier Province, India); cw.m.; usu. light tan; long lop ears; ft. — *18*:285

Weiladjo: see Bornu

Welsh Mountain; w.m.; white or light tan face, also speckle-face vars.; ♂ hd, ♀ pd; orig. from Welsh Tanface; vars. inc. Improved (*i.e.* pedigree), Cardy (Cardiganshire), Glamorgan, and Black Welsh Mountain — *11*:27

Wensleydale (N. England); lw.m.; blue face and legs; pd; orig. from Leicester × Teeswater; syn. *Wensleydale Blueface, Wensleydale Longwool, Yorkshire Leicester* (Scotland); var: Teeswater — *5*:32, *12*:143

West African: see Macina (wooled), W.African Long-legged and W.African Dwarf (hairy)

West African Dwarf (S. of W. Africa); white usu. with red or black spots; hy, hd; syn. *Cameroons Dwarf, Djallonké, Fouta Djallon* (Fr. W. Africa), *Kirdi, Kirdimi*, or *Lakka* (Chad), *Nigerian Dwarf, Southern, West African Maned* — *4*:422, *6*:207

WEST AFRICAN LONG-LEGGED; hy; inc. Maure, Tuareg, and Fulani; syn. *Guinea Long-legged, Sahel*

West Country Cheviot (S.W. Scotland): strain of Cheviot; syn. *Lockerbie Cheviot*

West Country Down: see Dorset Down

Western: see Wiltshire Horn

West Friesian: see Friesian

West Indian; brown with black belly; hy; West African orig., imported early 20th c.; inc. Barbados Black-belly, and Long Island (Bahamas) — *13*:27

West Pyrenean (France); Pyrenean type; inc. Basque, Béarn, Lourdes, Aure & Campan — *16*:130-1

West Swiss White: var. of White Swiss Mountain; orig. from Ile-de-France × local; Fr. *Blanc de la Suisse Occidentale* — *18*:284

White Arab (W. Africa): see Tuabir

White Bororo: see Bornu

Whitefaced Maine (N.W. France); m.lw.; sim. to Cotentin; pd; orig. from Leicester (imported 1855-90) × local, and improved by Cotentin; Fr. *Maine à tête* (or *face*) *blanche*; syn. *Mayenne White*; disappearing by spread of Bluefaced Maine — *2*:115, *4*:420

Whiteface Woodlands: see Penistone

White Fulani: see Bornu

White-headed German: see German Whiteheaded Mutton

White-headed Mutton: see German Whiteheaded Mutton

White-headed Oldenburg: see German Whiteheaded Mutton

White Karaman: see Ak-Karaman

White Maure: see Tuabir

White Persian: see Van Rooy White Persian

White Swiss Mountain (S. and E. Switzerland); m.sw.; lop-eared alpine type; pd; orig. from Württemberg *et al.* × native (Appenzell, Bündner Oberland, Oberhasli-Brienz, Schwyz, and Wildhaus); Fr. *Blanc des Alpes*; Ger. *Weisses Gebirgs-* (or *Berg-*) *Schaf*; syn. *Improved White-headed Mountain, White Alpine*; var: West Swiss White (*q. v.*) — *2*:406, *8*:375, *9*:319-20, *10*:33-4, *13*:145, *18*:288

Wicklow Mountain (Êire); Cheviot blood; syn. *Irish Short-wool, Wicklow*

wild: see aoudad, argali, bighorn, mouflon, red, urial

Wildhaus: see White Swiss Mountain; syn. *East Swiss, St. Gallen*; orig. (with Oxford Down) of Grabs — *8*:375

Wilstermarsch (Holstein, Germany); d.m.w.; Marsh type; pd, st. — *3*:41, 266, *10*:165, *11*:232-3

Wiltshire Horn (England, now chiefly Anglesey and Northants); m.; hd; woolless, *i.e.* very short shedding fleece; syn. *Western*; orig. (+ Berkshire Knott and × Southdown) of Hampshire Down; not *Wiltshire Horned*

Woodlands Horned: see Penistone

Woolled Afrikaner: see Bezuidenhout Afrikaner

Woozie: see Wusih

Wrzosówka: see Polish Heath; not *Wrzozowka*

Württemberg, Württemberg Bastard, Württemberg Improved Land: see German Improved Land; Ger. *Württemberger*; not *Würtemburg*

[Württemberg Land]: orig. of German Improved Land

Württemberg Merino: see German Improved Land

Wushing: see Wusih

Wusih (Kiangsi-Chekiang, China): var. of Mongolian; syn. *Hu, Huchow*; not *Wushing, Woozie* — *5*:405, *13*:144

Yorkshire Cross: see Masham

Yorkshire Leicester: see Wensleydale

Yugoslavian Zackel: see Pramenka

Yuruch: var. of Bulgarian; Bulg. *Juručka* — *6*:1

ZACKEL (S.E. Europe); cw.d.m.; white, black, brown, or pied; ♂ hd (long spiral), ♀ hd or pd, usu. lt.; inc. Albanian, Bulgarian, Greek, Karakachan (Macedonia), Polish, Pramenka (Yugoslavia), Racka (Hungary), Ruthenian, Ţurcana (Romania), Valachian (Slovakia), Voloshian (U.S.S.R.); Pol. *Cakiel*; syn. *Prong Horn, Twisted Horn*; not *Zakel*. *1*:251, *3*:41, *9*:113-4
[Ger. *Zacke* = prong, referring to straight horns of Racka]

Zaghawa (N.W. Darfur, A.-E. Sudan); black; hy, ♂ hd, ♀ pd; syn. Black Maure (Chad Territory)

Zaïan: var. of Tadla

Zakynthos (Ionian Sea): var. of Greek Zackel *8*:95

Zandi (Persia); fur; white, yellow, grey, or black; ♂ hd, ft. *7*:122, *14*:22

Zandir: see Çandir

[Zaupel] (Bavaria); cw. *8*:133

Zel: see Iran Thin-tailed

Zembrane: South Moroccan type: orig. from Tadla × Berber

Zemmour (N.W. Morocco); m.cw.; hd

Zenu: see Zunu

Zigai, Zigaia, Zigaja, Zigaya: see Tsigai

Zillertal: var. of Carinthian

Zoulai (Morocco): var. of Berber *7*:20

Zunu (Angola); hy, lt.; syn. *Goitred, Zenu*

Zurkana: see Ţurcana

PART II

COUNTRIES AND REFERENCES

EUROPE

Unless otherwise stated figures for numbers (or percentages) of different breeds of livestock in each country are taken (or calculated) from the figures given in the publication: "Breed composition of European livestock " *Food and Agric. FAO Europ. Bull.*, 1949, **2**(4):274—281.

Figures for livestock numbers in 1946—48 are taken from "Yearbook of food and agricultural statistics 1949." *FAO.*, 1950.

All figures of livestock numbers are given to the nearest thousand. If there are less than 10,000 of an animal in a given country then that species is omitted.

ALBANIA

Figures for breed numbers are from Samim, 1939

HORSE

54,000 in 1938

Albanian (native pony)

ASS

c. 45,000 in 1938

Albanian (native breed)

CATTLE

371,000 in 1946 (inc. buffaloes)

	Percentage
Albanian (Iberian type)	99
Mursi (Grey Steppe type)	1

BUFFALO

22,000 in 1938

Albanian (native breed)

SHEEP

1,574,000 in 1938

	Approx. number
Albanian Zackel	
Common Albanian	1,000,000
Lara Polisi	15,000
Mati	25,000
Ruda	30,000
Shkodra	140,000

GOAT

932,000 in 1938

Albanian (native breed)

PIG

15,000 in 1938

Albanian (native breed)

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AUSTRIA

HORSE

274,000 in 1946 (Dec.)
283,000 in 1947 (Nov.)

	Percentage in 1946
Heavy draft (chiefly Noric)	79
Light ("warm-blood")	12
Hafling	5
Crossbred	4

CATTLE

2,206,000 in 1946 (Dec.)
2,158,000 in 1947 (Nov.)

	Percentage in 1946 (*Steinlechner*, 1947)
Spotted Mountain (Simmental)	35.0
Pinzgau	16.7
Murboden	12.8
Blond (Carinthian and Styrian) } Light Alpine	12.1
Waldviertel	—
Brown Mountain (inc. Montafon and Styrian Brown)	11.6
Oberinntal (Grey Mountain)	2.2
Bergscheck	1.3
Tux-Zillertal	0.1
Other breeds (esp. Red- and Black-Pied Lowland) and cross-bred	8.2

SHEEP

399,000 in 1946 (Dec.)
474,000 in 1947 (Nov.)

	Percentage in 1946
Carinthian (and Steinschaf)	70
Merino	7
Brownheaded Mutton (Oxford Down)	3
Crossbred	20

GOAT

272,000 in 1946 (Dec.)
310,000 in 1947 (Nov.)

	Percentage in 1946
Saanen	5.0
Toggenburg	3.5
Alpine	1.5
Crossbred (and local)	90.0

PIG

1,490,000 in 1946 (Dec.)
1,724,000 in 1947 (Nov.)

	Percentage in 1946
German Edelschwein (Large White)	50
German Improved Landschwein	30
Crossbred	20

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ZOOLOGICAL GARDEN CALCUTTA

BELGIUM

HORSE

297,000 in 1946 (Jan.)
288,000 in 1948 (Jan.)

	Approx. percentage in 1946
Belgian	92.3
Thoroughbred	0.3
Halfbred Trotter	0.8
Crossbred	6.6

CATTLE

1,652,000 in 1946 (Dec.)
1,588,000 in 1947 (Dec.)

	Approx. percentage in 1947 (*Lievens*, 1947)
Blue	52
Red West Flemish	15
East Flemish Red Pied	14
Campine	12
Hervé	7

SHEEP

107,000 in 1948 (Jan.)

Campine
Entre-Sambre-et-Meuse
Suffolk
Hampshire Down
Texel

GOAT

105,000 in 1946 (May)
74,000 in 1948 (May)

	Approx. percentage in 1946
Belgian Fawn	4.5
Saanen	0.5
Crossbred	95.0

PIG

735,000 in 1945 (Dec.)
658,000 in 1948 (May)

	Approx. percentage in 1946
German Improved Landschwein	1.9
Large White	0.6
Crossbred	97.5

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BULGARIA

HORSE
549,000 in 1947 (Dec.)
Native horse is Bulgarian (pony)

ASS
157,000 in 1947 (Nov.)

CATTLE
1,711,000 in 1947 (Aug.)
Native breeds
Iskar (Grey Steppe type)
Rhodope (*brachyceros* type)
Stara-Planina (intermediate)

BUFFALO
311,000 in 1947 (Aug.)
Bulgarian

SHEEP
c. 9,000,000 in 1947 (Dec.)
Native breeds
Bulgarian (Zackel type) with many local varieties
Karnobat (orig. from Tsigai)

GOAT
1,069,000 in 1947 (Aug.)

PIG
c. 825,000 in 1947 (Dec.)

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CZECHOSLOVAKIA

HORSE

630,000 in 1948 (Jan.)

Heavy draft

Belgian and Noric (Bohemia and Moravia only)

Light ("warm-blood")

Arab	Norman	Oldenburg
Thoroughbred	Nonius	East Friesian
English Halfbred	Hackney	Hanover
Lipitsa	Kladrub	

Native pony

Hutsul (Carpathians)

CATTLE

3,275,000 in 1948 (Jan.)

Czechoslovak Red Spotted (Simmental origin) . . . predominant

Bohemian Red Spotted	Kravařsko
Moravian Red Spotted	Schönhengst

Central European Red breeds . . . . . disappearing

Chebsko (Bohemia)	Sudeten Red
Moravian Red	Slovakian Red

Imported

	Slovakia only (*Slovakia*, 1940)
Friesian	—
Simmental	2/3
Pinzgau	1/3

SHEEP

386,000 in 1948 (Jan.)

Bohemia and Moravia

English mutton breeds and Mutton Merinos are replacing Bohemian native

Also some Karakuls and East Friesians

Slovakia

	Percentage in 1944 (*Kovác*, 1948)
Valachian Zackel	65.18
Hampshire and Tsigai	19.50
Merino	13.05
No special breed	2.27

GOAT

922,000 in 1948 (Jan.)

PIG

2,566,000 in 1948 (Jan.)

Bohemia and Moravia

Czechoslovak Improved White (Large White type)

Slovakia

Mangalitsa and native lop-eared (Polish native)

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DENMARK

HORSE

639,000 in 1944
573,000 in 1948 (July)

Percentage of stallions in 1944 (*Skovgaard*, 1946)

Heavy	
Belgian	36.0
Jutland	23.0
Other heavy breeds	4.6
Light	
Frederiksborg	7.4
Oldenburg	6.8
Fjord	7.3
Thoroughbred and other light breeds	14.9

CATTLE

3,188,000 in 1944
2,826,000 in 1948 (July)

Percentage in 1944 (*Hansen Larsen*, 1947)

Red Danish	68
Black Pied Jutland } Black Pied Danish	18
Friesian } Black Pied Danish	1
Shorthorn	9
Jersey	2
Others	2

SHEEP

77,000 in 1948 (July)

PIG

1,768,000 in 1946 (July)
1,448,000 in 1948 (July)

Percentage of breeding animals at registered breeding centres in 1946 (*Jespersen*, 1947)

Danish Landrace	98.9
Large White	1.1

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FINLAND

HORSE

382,000 in 1948 (Mar.)

Finnish (Northern type)

CATTLE

1,452,000 in 1948 (Mar.) — Percentage of recorded cows (*Kajanoja*, 1950)

Finnish (vars: East, West, and North Finnish)	55
Finnish Ayrshire	45

SHEEP

999,000 in 1948 (Mar.)

Finnish (Northern Short-tailed type)

PIG

304,000 in 1948 (Mar.)

Chiefly crossbred (Large White × native lop-eared)

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FRANCE

HORSE

2,407,000 in 1947 (Oct.)

Heavy draft

- Augeron
- Auxois
- Berry
- Boulonnais
- Breton Draft
- Maine
- Nivernais
- Percheron
- Trait du Nord (Belgian)

Light

- Arab
- Breton Post-horse
- Charentais
- Charollais
- Corlay
- French Trotter
- Limousin (Anglo-Arab)
- Norman
- Norman Cob
- Tarbes
- Thoroughbred
- Vendée

ASS

105,000 in 1947 (Oct.)

Native breeds include Poitou and Gascony

CATTLE

16,152,000 in 1943 15,125,000 in 1947 (Oct.)	Number in 1943 (*Quittet*, 1946)	Approximate percentage
Normandy	3,012,000	18.6
Charollais	1,422,000	8.8
Eastern Red Pied (Simmental type)	1,039,000	6.4
Friesian	840,000	5,2
Limousin	685,000	4.2
Maine-Anjou	531,000	3.3
Flemish	453,000	2.8
Parthenay	415,000	2.6
Gascony	405,000	2.5
Salers	385,000	2.4
Aubrac	382,000	2.4
Armorican	275,000	1.7
Blond Pyrenean	269,000	1.65
Breton Black-Pied	263,000	1.6
Garonne	251,000	1.55
Tarentaise	150,000	
Ferrandais	129,000	
Quercy	105,000	
Swiss Brown	88,000	
Bazas	61,000	
Vosges	40,000	
Corsican	33,000	
Mézenc	17,000	4.3
Central Pyrenean	16,000	
Villard-de-Lans	16,000	
Froment du Léon	11,000	
Shorthorn	10,000	
Blue	9,500	
Bordelais	3,000	
Camargue	2,500	
Crossbred and various (inc. Jersey)	4,834,000	30
Total	16,152,000	100.0

SHEEP

7,405,000 in 1947 (Oct.)

	Number in 1947 (*Portal and Quittet*, 1950)
Fine-wool breeds	
Arles Merino	280,000
Württemberg (German Improved Land) (Alsace-Lorraine)	60,000
Précoce	16,000
Rambouillet	2 flocks
Meat-Wool breeds (with blood of English breeds, esp. Leicester, Romney and Southdown)	
Ile-de-France	850,000
Southdown (esp. Vendée, Sâone-et-Loire, and Allier)	300,000
Berry (inc. Indre and Cher varieties)	300,000
Charmoise	270,000
Cotentin	85,000
Bluefaced Maine	50,000
Avranchin	22,000
Texel (Nord and Aisne)	15,000
Boulonnais and Caux	13,000
Local native breeds	
North	
Sologne	5,000
Trun	4,000
Ushant	4,000
South-West (Pyrenean type)	
Central Pyrenean (inc. Castillon and Tarascon)	181,000
Manech	95,000
Basque (West Pyrenean)	54,000
Béarn (West Pyrenean)	51,000
Lourdes (West Pyrenean)	40,000
Aure & Campan (West Pyrenean)	29,000
Landes	50,000
Corbières	16,000
South-Centre	
Causses (inc. Lot, Lozère, Garrigues and Cévennes)	450,000
Limousin	250,000
Lacaune (inc. Camarès)	180,000
Bizet	120,000
Velay Black	35,000
Rava	27,000
Ardes	12,000

SHEEP (continued)

	Number in 1947 (*Portal and Quittet*, 1950)
South-East	
Préalpes du Sud	280,000
Thônes & Marthod	19,000
Corsica	
Corsican	100,000
Crosses and minor breeds	3,142,000
Total	7,405,000

GOAT

1,145,000 in 1947 (Nov.)

Native breeds include French Alpine, Pyrenean, Auvergne, and Touraine-Poitou-Berry

PIG

5,678,000 in 1947 (Oct.)

Major breeds

Craon (Celtic type)
Large White

Local breeds (many disappearing by crossing with above)

Celtic type
Flemish
Boulonnais
Normandy
Breton
Bordeaux

Celtic × Large White or Berkshire
Bayeux
Loches
Montmorillon

Iberian type
Limousin
Périgord
Basque
Béarn
Gascony
Bresse

Iberian × Large White or Craon
Cazères
Miélan
Corrèze
Marseilles

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Pig

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GERMANY

Breed percentages for horse, sheep and pig are from Schmidt, Patow and Kliesch, 1950, *and for cattle from Dtsch. landw. Tierz.* 1938 (*Highland*) *and* 1939 (*Lowland*)

HORSE

3,429,000 in 1937
2,240,000 in 1947 (Dec.)

	Percentage in 1937 of heavy draft	total
Heavy draft ("cold-blood")		60
Rhenish (Belgian)	82.0	
Noric	13.6	
Schleswig	4.4	
Light ("warm-blood")		40
Arab		
East Friesian		
East Prussian		
Hanover		
Holstein		
Mecklenburg		
Oldenburg		
Rottal		
Thoroughbred		
Württemberg		
Zweibrücken		

ZOOLOGICAL GARDEN CALCUTTA

CATTLE

18,914,000 in 1936
13,145,000 in 1947 (Dec.)

	Percentage in 1936 of Highland	Percentage in 1936 of total
Highland		39.4
Spotted Mountain (Simmental)	67.4	
Yellow Hill (inc. Franconian, Glan-Donnersberg, Lahn and Limpurg)	14.4	
German Brown (inc. Allgäu and Murnau-Werdenfels)	8.0	
German Red (inc. Bavarian Red, Harz, Odenwald, Sechsämter, Siegerland, Silesian Red, Waldeck, Vogelsberg, and Vogtland)	5.5	
Small Spotted Hill (Hinterwald and Vorderwald)	1.1	
Pinzgau	1.0	
White-marked (Kelheim and Westerwald)	0.5	
Glatz Mountain	0.3	
Other Highland types	1.9	
	of Lowland	
Lowland		59.6
Black Pied Lowland (inc. East Friesian, East Prussian, Jeverland, Wesermarsch)	81.6	
Red Pied Lowland (inc. Lower Rhine, Red Pied East Friesian, Red Pied Holstein, *i.e.* Breitenburg and Wilstermarsch, and Red Pied Westphalian)	11.8	
Red East Friesian	0.2	
Angeln	0.8	
Other Lowland types	5.6	
Shorthorn and Land Shorthorn		1.0

SHEEP

3,054,000 in 1947 (Dec.)
2,491,000 in 1948 (Dec.) (W. zones only)

	Percentages in 1936	Percentages in W. zones, 1948 (*Tierzüchter*, 1950)
Improved breeds		
Merino } Mutton Merino }	50.9	— / 5.80
German Improved Land (Merino Landschaf)	22.2	41.04
German Blackheaded Mutton	11.8	26.55
German Whiteheaded Mutton	5.6	7.85
East Friesian and Wilstermarsch	2.2	8.42
Local breeds		
Heath	2.2	3.00
Leine	2.0	2.66
Skudde and Pomeranian	1.8	—
Bentheim	?	0.59
Rhön	0.7	0.55
German Mountain (Bergamo type)	0.4	3.06
Karakul	0.2	0.10
Crossbreds		0.38

GOAT

2,600,000 in 1936
2,401,000 in 1947 (Dec.)

	Percentage in 1936 (*Kliesch*, 1947)
White German Improved	63.8
Fawn German Improved	22.7
Thuringian (Toggenburg)	2.1
Nondescript	11.4

PIG

22,827,000 in 1936
7,636,000 in 1947 (Dec.)

	Percentages in 1936	Percentages in W. zones, 1948 (breeding stock only)
German Improved Landschwein	71.64	71.6
German Edelschwein (Large White)	19.52	4.4
Swabian-Halle } Angeln Saddleback }	1.38 / 0.35	19.9
German Pasture	0.25	1.7
Berkshire	0.23	1.1
Large Black	0.21	1.3
No definite breed	6.44	

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GREECE

HORSE
241,000 in 1947 (Dec.)

Greek (native pony)

ASS
355,000 in 1947 (Dec.)

CATTLE
693,000 in 1947 (Nov.)

Greek Shorthorn (with several varieties) . . . . predominant
Greek Steppe
Crossbreds from imported dairy breeds . . . . . few

BUFFALO
59,000 in 1947 (Dec.)

Greek

SHEEP
7,196,000 in 1947 (Dec.)

Greek Zackel, with many varieties

GOAT
3,539,000 in 1947 (Dec.)

Greek (Balkan type)

PIG
480,000 in 1947 (Dec.)

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HUNGARY

HORSE

939,000 in 1939 (Spring)
651,000 in 1948 (May)

	Percentage in 1939
Draft (inc. Mur Island and Pinkafeld	20.6
Nonius	12.5
English Halfblood (inc. Gidran and Kisbér)	4.5
Arab Halfblood	2.1
Lipitsa	1.7
Arab and Thoroughbred	0.3
Other light horses	58.3

CATTLE

1,100,000 in 1946 (May) (inc. buffalo)
1,993,000 in 1948 (May)

	Percentage in 1946
Hungarian Red Spotted	81.7
Hungarian Steppe	9.0
Hungarian and Swiss Simmental	0.26
Brown Mountain	0.17
Crosses	8.9

BUFFALO

3,000 in 1948 (Mar.)

Hungarian

SHEEP

370,000 in 1946 (May)
579,000 in 1948 (May)

	Percentage in 1946
Hungarian Merinos	71.5
Tsigai	7.1
Racka (Zackel)	2.7
Crossbred	18.7

GOAT

88,000 in 1946 (May)
115,000 in 1948

	Percentage in 1946
Saanen	5
Crossbred	95

PIG

1,327,000 in 1946 (May)
2,771,000 in 1948 (May)

	Percentage 1946 (*FAO*)	Percentage 1948 (*Horn*)
Mangalitsa	30.0	60
Large White	7.4	
Berkshire	2.5	
Large Black	0.1	
Crossbred	60.0	30

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ICELAND

HORSE
48,000 in 1947 (Spring)
Iceland Pony

CATTLE
38,000 in 1947 (Spring)
Iceland (native breed)

SHEEP
454,000 in 1948 (Spring)
Iceland (native breed)

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IRELAND (EIRE)

HORSE

421,000 in 1948 (June)

Breeds include Thoroughbred, Irish Draught, Irish Hunter, Clydesdale, and Connemara Pony

ASS

119,000 in 1948 (June)

CATTLE

3,921,000 in 1948 (June)

Chiefly Dairy Shorthorns or their crosses

Some Hereford, Kerry, Aberdeen-Angus, Friesian, Jersey, and Ayrshire

SHEEP

2,058,000 in 1948 (June)

Scottish Blackface, Galway and Roscommon account for 60 % (1946)

Remainder are Cheviot, Border Leicester, Lincoln, and Down breeds

GOAT

57,000 in 1948 (June)

PIG

457,000 in 1948 (June)

Nearly all Large White

REFERENCE

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ITALY

HORSE

580,000 in 1946 (July)
720,000 in 1948 (July)

	Estimated number in 1946
Draft	
Heavy draft } inc. Po, Belgian and Breton	80,000
Light rapid draft } inc. Po, Belgian and Breton	95,000
Noric	2,500
Hafling	5,200
Local light	
Sicilian (improved)	54,000
Sardinian (,,)	35,000
Salerno (,,)	26,000
Apulian (Capitanata)	12,000
Murge	10,000
Maremma (improved)	10,000
Calabrian (,,)	8,000
Imported light	
Trotter	8,000
Halfbred Trotter	13,000
Arab (Oriental)	500
Thoroughbred	2,100
Anglo-Arab	300
Lipitsa	1,000

ASS

547,000 in 1948 (July)

Recognized breeds

- Martina Franca (Apulian)
- Pantelleria
- Romagna
- Sardinian
- Sicilian (Ragusan)

CATTLE

6,900,000 in 1946 (July)
7,923,000 in 1948 (Jan.)

	Approx. number of pure-breds + grades in 1934 (*De Simone*, 1935)	Estimated number in 1946 (*FAO*, 1949)
Dairy breeds		
Brown Alpine	2,171,000	1,740,000
Friesian	41,000	205,000
Brown Sardinian	75,000	80,000
Other dairy		175,000
Podolian type (meat-work)		
Romagna	503,000	330,000
Apulian (inc. Abruzzi 22,000 Campania 10,000)	372,000	305,000
Marche	353,000	470,000
Chiana (inc. Perugia 155,000 Calvana 13,800)	308,000	370,000
Chiana-Maremma	65,000	
Maremma	140,000	175,000
Local triple-purpose breeds		
Piedmont	575,000	475,000
Modena (Po)	277,000	235,000
Grey Alpine	210,000	?
Grey Adige	199,000	?
Mölltal (+ Pinzgau)	145,000	?
Red Pied Friuli	143,500	105,000
Aosta (inc. Red Pied 106,000 Black Pied 30,000 Oropa 6,000)	142,000	?
Sicilian (inc. Modica, 45,000)	139,000	100,000
Reggio	98,000	?
Modica-Sardinian	76,000	?
Tortona	25,000	?
Burlina	20,500	?
Pontremoli	14,500	?
Garfagnana	13,000	?
Pisa	7,500	?
Total	6,113,000	

BUFFALO

12,000 in 1947 (July)

Italian

SHEEP

7,388,000 in 1946 (July) 9,434,000 in 1948 (Jan.)	Percentage (*Italy*, 1949)	Estimated number *c.* 1946	Reference
Breeds with Merino blood			
Visso	4.2	1,800,000	*FAO*, 1949
Upper Visso	1.8		
Improved Apulian	1.8	1,400,000	*FAO*, 1949
Improved Lucanian	4.7		
Improved Calabrian	2.6		
Maremma		?	
Apennine type			
Garfagnana and Massa, Casentino, Chiana and Siena — Tuscany Apennine	1.8	200,000 ?	*A.B.A.*, **17**:358
Emilia Apennine	1.1		
Frabosa (Cuneo, Piedmont)		15,000	*Carbone*, 1947
Perugian			
hills	2.1		
plains	1.0		
Lop-eared alpine type		400,000	*FAO*, 1949
Bergamo (Lombardy)	1.8		
Langhe (Piedmont)		45,000	*A.B.A.*, **19**:72
Biella (Piedmont)		40,000	*Carbone*, 1947
Lamon (Venetia)		30-40,000	*Italy*, 1943
Cadora (Venetia)		15-20,000	*Italy*, 1943
Varese (Lombardy)		3,000	*A.B.A.*, **17**: 360-1
Alpago, Paduan, Pavullo, Friuli, Val Badia, and Val Senales (Venetia)		?	
Coarse-wooled breeds (south and islands)			
Sardinian	26.7	1,700,000	*FAO*, 1949
Sicilian	5.3	600,000	*FAO*, 1949
Lecce, Altamura — Moscio	2.3 1.2	300,000	*FAO*, 1949
Pagliarola	5.2		
Sicilian and Campanian Barbary		?	
Crossbreds and heterogeneous	36.4		

GOAT

1,304,000 in 1946 (July) 2,174,000 in 1948 (Jan.)	Approx. number in 1946
Italian Alpine	40,000
Sicilian	10,000
Calabrian	17,000
Maltese	15,000

PIG

c. 3 million in 1946 (Jan.)
3,757,000 in 1948 (Jan.)

	Percentage in 1946
Large White and derivatives	16.0
Siena Belted and Chiana	4.0
Romagna, Lucania, and Gargano (Apulia)	3.3
Caserta and derivatives	2.8
Large Black and derivatives	2.7
Friuli Black and Valtellina	1.7
Crossbred	69.5

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LUXEMBOURG

HORSE

17,000 in 1948 (May)

Belgian	100 %

CATTLE

111,000 in 1945
114,000 in 1948 (May—June)

	Percentage in 1945
Friesian	79.7
Meuse-Rhine-Yssel	18.9
Others	1.4

PIG

78,000 in 1948 (May)

German Improved Landschwein	100 %

NETHERLANDS

HORSE

355,000 in 1946 (May)
334,000 in 1948 (May)

	Percentage in 1946
Dutch Draft	59
Dutch Coach (Gelderland and Groningen) + Friesian	40
Crossbreds	1

CATTLE

2,222,000 in 1946 (Dec.)
2,090,000 in 1947 (Dec.)

	Approx. percentage in 1946 (*Rijssenbeek*, 1947)
Dutch Friesian	70
Meuse-Rhine-Yssel	25
Groningen	5

SHEEP

425,000 in 1948 (June)

Texel	almost 100 %
Friesian	a few

GOAT

278,000 in 1948 (May)

Netherlands White	majority
Toggenburg (Drenthe)	a few

PIG

1,062,000 in 1946 (Dec.)
937,000 in 1947 (Dec.)

	Percentage in 1946
Dutch Improved Land	83.3
Dutch Large White	16.7

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NORWAY

HORSE

238,000 in 1946 (June)
206,000 in 1948 (June)

	Estimated percentage in 1946
Døle	57.6
Fjord	33.2
Others and crossbred	9.2

CATTLE

1,455,000 in 1939 (June)
1,176,000 in 1948 (June)

	Percentage in 1939 (*Berge*, 1947)
Red Polled Østland	18.6
Black-sided Trondheim & Nordland	16.2
Telemark	16.1
Lyngdal and Vestland Polled } South & West Norwegian	16.0
Vestland Fjord } South & West Norwegian	10.6
Døle	11.0
Red Trondheim	10.1
Norwegian Red-and-White	1.4

SHEEP

1,629,000 in 1948 (June)

Chiefly Cheviot and its derivatives (Dala and Rygja)
Also some Old Norwegian and Oxford Down

GOAT

145,000 in 1948 (June)

All local Norwegian; Telemark and Gudbrandsdal are the only definite breeds

PIG

248,000 in 1948 (June)

Norwegian Landrace
Large White

REFERENCES

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POLAND

HORSE

2,307,000 in 1948 (June)

Native ponies
- Hutsul
- Goral
- Konik

Also Arabs and halfbreds and a few Thoroughbreds

CATTLE

5,748,000 in 1948 (June)

Principal breeds
- Polish Red
- Polish Black Pied (Friesian)
- Polish Simmental

SHEEP

c. 3 million in 1936
1,410,000 in 1948 (June)

	Approx. percentage in 1936 (*Konopiński*, 1937)
Polish Heath (Wrzosówka)	50
Polish Zackel	11
Świniarka (vars: Karnówka and Krukówka)	10
Précoce	10
Fagas and Pomeranian	1
Other breeds (Karakul, East Friesian, crossbreds and various)	20

GOAT

678,000 in 1947 (June)

PIG

4,626,000 in 1948 (June)
- Large White (German-Edelschwein)
- Polish Native (lop-eared)
- Pomeranian Large White
- Puławy
- German Improved Landschwein

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PORTUGAL

HORSE
81,000 in 1940

ASS
275,000 in 1934 (Dec.)

CATTLE
c. 950,000 in 1945 (Dec.)
Breeds include:

Alemtejo	Barrosã	Miranda
Aroucesa	Jarmelo	Ribatejo
Bajocara	Minho	Turino

SHEEP
c. 4 million in 1948 (Dec.)
Merino (black and white)
Bordaleiro (coarse-wooled)

GOAT
1,196,000 in 1940

PIG
1,177,000 in 1940
Iberian in south (inc. Alemtejo)
Celtic in north (inc. Bizara)

REFERENCE

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ROMANIA

HORSE

939,000 in 1947 (Dec.)

Light

- Romanian (vars. Dobruja, Moldavian, Mountain, Transylvanian)
- Arab (for Halfbreds and Anglo-Arabs)
- Thoroughbred (for Halfbreds and Anglo-Arabs)
- Hutsul (native Carpathian pony)
- Gidran (Anglo-Arab)
- Trotter

Medium

- Lipitsa
- Nonius
- Furioso-Northstar (English Halfbred)

Heavy

- Pinzgau and Ardennes

CATTLE

3,048,000 in 1946 (Dec.)

- Romanian Steppe (vars: Moldavian, Bucşan, Ialomiţa, Transylvanian)
- Romanian Mountain (*brachyceros* type)
- Simmental (Ruşeţu)
- Swiss Brown (Runcu)
- Pinzgau

BUFFALO

84,000 in 1945 (Dec.)

- Romanian

SHEEP

7,088,000 in 1947 (Apr.)

	Percentage (*Gasser*, 1938)
Ţurcana (Zackel)	61
Tsigai	27
Karakul	4
Others (Stogoş, Spanca, Merino, Karnabat, Racka)	8

GOAT

186,000 in 1945 (Dec.)

Carpathian	majority
Saanen	few

PIG

1,406,000 in 1947 (Mar.)

Mangalitsa, Large White	majority
Bazna	local only

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SPAIN

Numbers and breed percentages for horse, ass and goat are from Piergiovanni, 1948

HORSE

c. 600,000 — Percentage

Numbers

Agricultural horses	70
Draft horses (Catalan, Aragon, Navarre, etc.)	25
Army horses	5

Breeds

Light

Andalusian (with several varieties)

Draft

Aragon, Catalan } Breton origin

Ponies

Galician — Canary Island
Navarre — Losa
Cantabrian (Asturian, Liébana, and Basque)

ASS

900,000 — Percentage

Improved breeds	10
Andalusian	
Catalan	
Léon-Zamora	
Majorcan	
Unimproved	90
Castilian	

CATTLE

c. 3,808,000 in 1946 (Dec.)

North Spanish type

Galician
Asturian (vars: Carreño, Caso)
Leonese
Santander (Montaña) (vars: Campóo, Liébana, Tudanca)
Pyrenean (Basque)

Local breeds in Centre and South

Avila (Barco and Piedrahita)	Extremadura	White Caceres
Morucho (Salamanca)	Murcian	Serraña (Mountain)
Zamora (inc. Aliste)	Andalusian	

Imported breeds

Friesian and Swiss Brown

Bull-fighting

Toro de Lidia

SHEEP

c. 20,000,000 (1944—48)

	Percentage (*Cuenca*, 1944)
Merino	23.0
Raso or Entrefino (medium fine)	
Mancha	20.5
Castilian	13.9
Aragon	12.3
Andalusian	5.6
Segura	2.6
Churro (coarse wool)	20.5
Lacho	1.5

GOAT

4,900,000

	Percentage
Improved breeds	5
Murcian	
Malaga	
Granada	
Mountain	10
Pyrenean	85

PIG

c. 4,700,000 in 1946 (July)

	Percentage
Iberian	>80
Andalusian	
Black Castilian	
Extremadura	
Majorcan	
Celtic	
Catalan	
Galician	
Vitoria	
Imported	6
Large White	

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SWEDEN

HORSE

551,000 in 1947 (June)
497,000 in 1948 (June)

	Percentage of the 1249 stallions licensed in 1949 (*Johansson*, 1950)
Swedish Ardennes	60
North Swedish	23
"Warm-blood"	16
Gotland Pony	1

CATTLE

2,625,000 in 1948 (June)

	Percentage among milk-recorded cows, 1948—49 (*Korkman*, 1951)
Swedish Red-and-White (inc. Swedish Ayrshire)	68.4
Swedish Friesian	19.8
Swedish Polled (inc. Swedish Red Polled and Swedish Mountain)	9.2
Crossbred or no definite breed	2.6

SHEEP

349,000 in 1948 (June)

	Percentage in 1948—49 (*Johansson*, 1950)
Swedish Landrace	45
Cheviot	31
Shropshire	16
Oxford Down	8

GOAT

17,000 in 1948 (June)

Swedish Landrace
Saanen

PIG

1,195,000 in 1948 (June)

	Percentage among pigs registered, 1945—48 (*Johansson*, 1950)
Swedish Landrace	59.6
Large White	40.4

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SWITZERLAND

All breed percentages (except sheep) are from Kiener, 1947

HORSE

152,000 in 1946 (Apr.)
142,000 in 1948 (Apr.)

	Percentage in 1946 (excluding imports)
Jura	93
Swiss Halfblood (inc. Anglo-Norman 3 % and Holstein 3 %)	6
Mule breeders	1

CATTLE

1,472,000 in 1946 (Apr.)
1,424,000 in 1948 (Apr.)

	Percentage in 1946
Swiss Brown	44.5
Simmental	50.6
Hérens	2.0
Fribourg	1.7
Crossbreds	1.2

SHEEP

198,000 in 1941
183,000 in 1948 (Apr.)

	Percentage in 1941 (*Fontannaz,* 1949)
White Swiss Mountain (inc. West Swiss White 10 %)	54
Black-Brown Mountain	11
Brownheaded Mutton (Oxford)	7
Valais Blacknose	6
Other breeds	12
Crossbreds	10

GOAT

215,000 in 1941
187,000 in 1948 (Apr.)

	Percentage in 1941
Saanen	20.2
Chamois Coloured	13.7
Toggenburg	9.4
Grisons Striped	9.0
Verzasca	4.4
Valais Blackneck	3.6
Appenzel	3.1
Crossbred	23.8
Unknown	12.8

PIG

764,000 in 1941
767,000 in 1948 (Apr.)

	Percentage in 1941
Large White (Swiss Edelschwein)	19
Swiss Improved Landschwein	45
Coloured pigs	2
White crossbreds	21
Others	13

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UNITED KINGDOM

Figures (except for goats) were kindly supplied by the Ministry of Agriculture and Fisheries, the Department of Agriculture for Scotland and the Northern Ireland Ministry of Agriculture.

HORSE

618,000 in 1949 (June)

	Number of stallions licensed			
	England and Wales (1948—49)	Scotland (1949)	Northern Ireland (1949)	Total as % of all stallions licensed
Heavy				
Clydesdale	85	154	35	24.7
Shire	182	—	—	16.4
Suffolk	88	—	—	7.9
Percheron	80	6	—	7.7
Cleveland Bay	4	—	—	0.4
Irish Draught	—	—	3	0.3
Other breeds and crosses (Eng. and Wales only)	12			1.1
Light				
Thoroughbred	112	3	12	11.4
Hackney	48	16	2	5.9
Arab	36	7	—	3.9
Other breeds and crosses (Eng. and Wales only)	15			1.4
Ponies and Cobs				
Welsh Cob	47	—		
Welsh Pony	33	—		
Highland Pony	2	27		
Shetland Pony	1	18		
Dales Pony	17	—		
Dartmoor Pony	3	—	19	16.1
Fell Pony	2	—		
New Forest Pony	2	—		
Exmoor Pony	1	—		
Connemara Pony	1	—		
Other breeds and crosses (Eng. and Wales only)	6			
Non-pedigree (Scotland) or crossbred (N. Ireland)		20	11	2.8
Total stallions licensed	777	251	82	100.0
Total horses (1949)	470,000	87,000	61,000	

N.B. *Licences are not obligatory for semi-wild mountain and moorland ponies.*

CATTLE

10,244,000 in 1949 (June)

	Number of bulls licensed			
	England and Wales (1948—49)	Scotland (1949)	Northern Ireland (1949)	Total as % of all bulls licensed
Dairy				
British Friesian	9,099	467	334	23.7
Ayrshire	3,154	5,309	360	21.2
Guernsey	1,567	11	—	3.8
Jersey	909	29	26	2.3
Blue Albion	19	—	—	0.1
Kerry	11	—	2	
Shetland	—	12	—	
Gloucestershire	1	—	—	
Dual-purpose				
Dairy Shorthorn	11,090*	32	1,317 §	29.8
Lincoln Red Shorthorn	920	—	—	2.2
Red Poll	565	16	—	1.4
South Devon	506	—	—	1.2
Welsh Black	321	—	—	0.8
Dexter	24	—	1	0.1
British White	8	—	—	
Irish Moiled	—	—	2	
Longhorn	1	—	—	
Beef				
Hereford	1,694	12	47	4.2
Aberdeen-Angus	391	1,216	73	4.0
Beef Shorthorn	197†	807	?	2.4
Devon	525	—	—	1.3
Galloway	96	237	17	0.8
Sussex	196	—	—	0.5
Highland	6	88	—	0.2
Total bulls licensed	31,300	8,236	2,179	100.0
Total cattle (1949)	7,695,000	1,569,000	980,000	

* dairy + general licences † beef licences § inc. Beef Shorthorn

SHEEP

19,493,000 in 1949 (June)

Hill breeds

	Numbers of breeding ewes of hill sheep breeds (based on ewes eligible for subsidy in December 1949)				
	England (pure + cross)	Wales (pure + cross)	Scotland (purebreds only)	United Kingdom	
				Number	Percentage
Blackfaced Mountain					
Scottish Blackface	222,782	2,197	1,818,223	2,223,492†	48.9
Swaledale	453,164	89	*	453,253	10.0
Rough Fell	45,175	—	—	45,175	1.0
Lonk	24,976	—	—	24,976	0.5
Derbyshire Gritstone	15,363	673	—	16,036	0.4
Other hill breeds					
Welsh Mountain	13,701	1,002,541	*	1,016,242	22.3
Cheviot	35,340	30,814	444,245	510,399	11.2
Shetland	154	—	98,228	98,382	2.2
Herdwick	75,946	—	—	75,946	1.7
Radnor	5,271	23,225	—	28,496	0.6
Exmoor Horn	27,042	—	—	27,042	0.6
Kerry Hill	679	5,712	—	6,391	0.1
Soay	—	—	60	60	—
Other breeds and crosses (Scotland only)	—	—	21,100	21,100	0.5
Total (hill ewes only)	919,593	1,065,251	2,381,856	4,546,990†	100.0
Total breeding ewes in country (Dec. 1949)	3,445,000	1,783,000	3,240,000	8,771,000§	

* Included in "Other breeds and crosses".

† Includes the 180,290 sheep on which subsidy was paid in Northern Ireland and which were "practically all purebred Blackfaces".

§ Includes 303,000 breeding ewes in Northern Ireland.

Lowland breeds

Longwool

Leicester	Wensleydale	Devon Longwool
Border Leicester	Kent or Romney Marsh	South Devon
Lincoln Longwool		Dartmoor

Shortwool

(*see opposite*)

SHEEP (continued)

Shortwool

Down

Southdown	Suffolk	Hampshire Down
Shropshire	Dorset Down	Oxford Down

Other short-wooled breeds

Dorset Horn	Ryeland	Kerry Hill
Wiltshire Horn	Devon Closewool	Clun Forest

GOAT

53,000 in 1947 (June)

New pedigree registrations in 1949 (1st Jan. to 1st Dec.) (*Brit. Goat Soc. Yearb.*, 1950, p. 108)

	Number	Percentage
British	922	34.8
British Saanen	879	33.2
British Alpine	364	13.8
British Toggenburg	197	7.4
Saanen	144	5.5
Anglo-Nubian	111	4.2
Toggenburg	28	1.1

PIG

2,823,000 in 1949 (June)

	Number of boars licensed			
	England and Wales (1948—49)	Scotland (1949)	Northern Ireland (1949)	Total as % of all boars licensed
Large White	6,063	883	443	61.2
Wessex Saddleback	1,491	103	40	13.5
Essex	1,282	14	—	10.7
Large Black	828	90	8	7.7
Berkshire	196	—	—	1.6
Tamworth	157	8	—	1.4
Middle White	157	—	—	1.3
National Long White Lop-eared	85	—	—	0.7
Lincolnshire Curly-Coated	82	—	—	0.7
Yorkshire Blue and White	35	—	—	0.3
Gloucestershire Old Spots	34	—	—	0.3
Welsh	33	—	—	0.3
Large White Ulster	—	—	32	0.3
Oxford Sandy-and-Black	7	—	—	
Cumberland	5	—	—	
Dorset Gold Tip	2	—	—	
Total boars licensed	10,457	1,098	523	100.0
Total pigs (1949)	2,132,000	232,000	458,000	

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YUGOSLAVIA

All breed percentages are from Ognjezek, 1937

HORSE

1,200,000 in 1935
613,000 in 1946 (Dec.)

	Percentage
Nonius	26.4
Mountain (Bosnian and Macedonian)	23.3
Heavy draft (Belgian, Noric, etc.)	16.7
Arab	14.5
Lipitsa	12.1
English Halfbred	6.9

ASS

123,000 in 1939 (Dec.)

CATTLE

3,900,000 in 1935
2,493,000 in 1946 (Dec.)

	Percentage
Native breeds	55
Buša (*brachyceros* type)	
Yugoslavian Steppe	
Illyrian × Steppe (inc. Kolubara)	
Improved breeds (in north only)	
Simmental	25
Pinzgau	10
Grey and Brown Mountain	5
Carinthian Blond	?
Murboden	?

BUFFALO

38,000 in 1939
Macedonian

SHEEP

9,200,000 in 1935
6,355,000 in 1946 (Dec.) (inc. goats)

	Percentage
Pramenka (with many varieties)	90
Tsigai	5—6
Solčava	0.5
Other breeds and crosses	3.5—4.5

GOAT

1,866,000 in 1939 (Dec.)

PIG

2,900,000 in 1935
2,763,000 in 1946 (Dec.)

	Percentage
Lard type	40
Mangalitsa	
Šumadija	
Turopolje (4.5 %)	
Gurktal	
Bagun	
Primitive (pork) type	20
Šiška	
Improved	30
Large White	
Berkshire	
Morava, Black Slavonic } from Berkshire × Mangalitsa	

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U.S.S.R.

New 'breeds' described since **1948** *are not included*

HORSE

Native ponies

"Konik" type
- Polesian (White Russia)
- Žemaitukai (Lithuania)

Northern (Forest) type
- Estonian
- North Russian Pony (inc. Karelian, Mezen, Ob, Pechora, Tavda and Vyatka)

Mongolian type
- Bashkir
- Kazakh (vars: Adaev, East Kazakh, Jabe and Kirgiz Mountain)
- Siberian (inc. Altai, Kuznetsk, Narym, Transbaikal and Yakut)

Light horses

Trotters
- Russian Trotter (Orlov Trotter)
- Russo-American Trotter

Saddle horses
- Arab
- Russian Saddle
- Thoroughbred
- Don
- Kabarda and Karachaev — South European Russia
- Kalmyk
- Strelets
- Akhal-Teke
- Iomut
- Karabair — Central Asia
- Lokai

Heavy draft horses
- Brabançon
- Percheron
- Russian Ardennes
- Vladimir Draft
- Voronezh Draft

ASS

Small native types
- Caucasian (inc. Armenian and Azerbaijan)
- Central Asiatic (inc. Kara-Kalpak, Tajik, Turkmen and Uzbek (Bukhara))

Large native breeds
- Hamada (from Persia)
- Mary (Turkmenistan)

CATTLE

Indigenous cattle

Northern Polled type
East Finnish

Grey Steppe type
Ukrainian Grey

Brachyceros type
Caucasian (vars: Greater Caucasus and Lesser Caucasus)

Turano-Mongolian type
Kalmyk
Kirgiz
Siberian (vars: Altai and Yakut)

Zebu
Central Asiatic (inc. Khurasani, Kuramin, Tajik and Turkmen)
Transcaucasian (Talysh)

Local breeds from foreign × indigenous

Black Pied dairy type (Friesian blood)

Aulie-Ata	Tagil	Estonian Black Pied
Bushuev	Whiteheaded Colonist	Latvian Black Pied
Kholmogor	Yaroslavl	Podolian Black Pied
Istoben		

Baltic Red dairy type

Estonian Red	White-Russian Red
Latvian Red	Bessarabian Red
Lithuanian Red	Ukrainian Red (20 % of all cattle in 1946)

Dual-purpose (Swiss Brown, Simmental and/or Tux blood)

Bestuzhev	Lebedin	Tambov Red
Gorbatov Red	Sychevka	Yurino
Kostroma		

Foreign breeds

Dairy

Friesian	Red Danish
Ayrshire (Leningrad)	Angeln (Leningrad)

Dual-purpose
Simmental
Swiss Brown

Beef
Shorthorn
Hereford
Aberdeen-Angus

BUFFALO

Transcaucasian (Azerbaijan and Dagestan)

SHEEP

Fine-wooled

Soviet Merino
- Caucasian
- Siberian

Australian Merino

Soviet Rambouillet
- Askanian
- Caucasian
- Siberian

Précoce

Medium-wooled

English mutton breeds
- Hampshire Down — Lincoln
- Shropshire — Romney Marsh
- Oxford Down

Württemberg (German Improved Land)

Native breeds
- Tsigai
- Oparina
- Mennonite

Coarse-wooled (indigenous)

Long-thin-tailed
- Russian Long-tailed (vars: Bityug, Bokino, Cherkasy, and Mikhnov)
- Poltava Fur-Milch (vars: Sokolka and Reshetilov)
- Chushka (fur)

Long-fat-tailed
- Voloshian (vars: Steppe, Transdon, Voronezh, and Pyrnai)

Short-tailed
- Northern Short-tailed, Romanov } sheepskins
- Erek (Turkmenistan)

Short-fat-tailed
- Siberian — Buryat-Mongolian
- Kulunda (Altai) — Darvaz (Tajikistan)
- Telengit (Altai)

Broad or S-shaped fat tail
- Fur types
- Karakul
- Malich

Caucasian fat-tailed

(see overleaf)

SHEEP (continued)

Caucasian fat-tailed

Group 1. Imeritian

Group 2. Karachaev

Group 3. Balbas

Mazekh

Group 4. Bozakh

Dagestan Mountain (vars. Andi, Avar, Dargin, and Gunib)

Karabakh

Lezgian

Tabasaran

Tushin

Fat-rumped

Chuntuk, Kalmyk, Karanogai — N. Caucasus and Ukraine

Kazakh (inc. vars: Edelbaev and Temir), Kirgiz, Turkmen, Saraja, Tajik, Hissar, Pamir, Jaidara — Turkistan

GOAT

Milk breeds

North Russian (Tatar)

Improved North Russian

Meat-Milk breeds

Crimean

Karachaev (N. Caucasus)

Mingrelian (Georgia)

Kurdish type (meat-milk)

Azerbaijan (S. Caucasus)

Dagestan (E. Caucasus)

Turkmen

Rovmit (Tajikistan)

Central Asiatic Down type

Kirgiz (vars: Kazakh, Uzbek, and S. E. Bashkir & Chkalov)

Don

Mongolian

Mohair type

Angora

PIG

Indigenous

Northern lop-eared (Celtic)
Short-eared (S. and C. European U.S.S.R. and Siberia) inc. Chuvash, Georgian, Lesogor, Ukrainian and Siberian Spotted

Improved native

From short-eared
Ukrainian White Steppe
Mirgorod Spotted
North Siberian
From lop-eared
Livny, Breitov } major
Alabuzin, Urzhum } minor

Imported

Large White
Berkshire
German Edelschwein
Mangalitsa

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ASIA

In only a few cases has it been possible to obtain figures for breed composition of individual countries in Asia. Accordingly the continent has been divided into natural divisions within which the livestock types are similar. The tables show the classification of native livestock within the following areas:

Middle East
(Persia, Iraq, Syria, Palestine, Jordan, Egypt, and Cyprus)

Turkey

India
(Pakistan and Indian Union)

China
(including Mongolia, Tibet, and Sinkiang)

Japan

South-East Asia
(Burma, Siam, Indo-China, Malaya, Indonesia, and Philippines)

MIDDLE EAST

(excluding Turkey)

Persia, Iraq, Syria, Palestine, Jordan, Egypt, Cyprus

HORSE

- Arab type
  - Persian Arab
  - Syrian
  - Egyptian
- Kurdi (Kurdistan)
- Turkmen (N. E. Persia)

ASS

- Native types
  - Persian
  - Syrian
  - Egyptian
- Improved breeds
  - Hamadan (Persia)
  - Damascus (Syria)
  - Cyprus

CATTLE

- Brachyceros (humpless)
  - Oksh (Syria and Palestine - 80 %)
  - Kurdi (Kurdistan)
  - Jaulan (S.W. Syria)
- Humped × humpless (small or no hump but marked zebu points)
  - Persian (very variable)
  - Damascus and Lebanese (Syria)
  - Dishti variety of Iraqi
  - Egyptian (vars: Baladi, Damietta, Saidi, Maryuti)
  - Cyprus (vars: Messaoria and Paphos)
- Zebu (humped)
  - Iraqi (vars: Jenubi and Rustaqi)
  - Khurasani and Seistani vars. of Persian

BUFFALO

- Persian
- Iraqi
- Syrian
- Egyptian

SHEEP

Middle East fat-tailed (coarse-wooled)

Persia

Arabi	Kalaku	Luri
Baluchi	Kermani	Maku
Farahani	Khurasani	Turki
Gurgani	Kurdi	Zandi

Approx. percentage (*Williamson*, 1949)

Iraq

Awasi	60
Arabi (S.E.)	30
Kurdi (N.W.)	10

Syria, Palestine and Jordan

Awasi	predominant
Ak-Karaman	a few in north
Arabi	a few in south and east

Egypt

Abidi	Fellahi	Rahmani
Ausimi	Ibeidi	Saidi
Barki		

Cyprus

Cyprus Fat-tailed

Thin-tailed (coarse-wooled)

Chiva or Mazanderani (N. Persia)

GOAT

Kurdish type

Kurdi (Kurdistan and Persia)

Syrian type

Syrian Mountain (Syria, Palestine, Jordan, Iraq)
Baladi and Saidi (Egypt)
Cyprus
Damascus

Nubian type

Zaraibi (Egypt)

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TURKEY

HORSE

Anatolian Native
Çukurova
Turkish Arab } Arab × Anatolian Native
Malakan
Uzunyayla

ASS

Anatolian (native breed)

CATTLE

Brachyceros
- Anatolian Black
- East Anatolian Red (vars: Çildir and Göle)
- South Anatolian Red (vars: Aleppo or Damascus, Çukurova, Dortyol, and Kilis)

Grey Steppe
- Plevna (N.W.)

Imported
- Montafon (N.W.)

BUFFALO

Anatolian (native breed)

SHEEP

	Number (? in 1934) (*Gürgen*, 1937)
Fat-tailed	
Ak-Karaman and Kizil-Karaman	5,012,722
Dağliç	1,998,176
Long-thin-tailed	
Kivircik	1,391,375
Karayaka	
Others	
Kamakyuruk and Pirlak (Dağliç × Kivircik	2,668,478
Chios and Tushin (fat-tailed)	
Turkish Merino (Merino × Kivircik)	
Total	11,070,751

GOAT

Anatolian Black (Kurdish type)
Angora
Abkhasian (N.E.)
Mingrelian (N.E.)

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INDIA

Pakistan and the Indian Union

Recognised breeds only are listed — the rest of the stock is desi, *i.e. local, unimproved, or breedless*

HORSE

Light (N.W.)
- Baluchi
- Hirzai
- Kathi
- Marwari
- Unmol
- Waziri

Ponies (N.)
- Bhutia Pony
- Deccani
- Manipuri Pony
- Shahbadi Pony
- Spiti Pony
- Zaniskari Pony

BUFFALO

c. 45,000,000

	Estimated number (*India*, 1946)
North-West (dairy)	
Murrah type — short coiled horns	
Murrah (Delhi) inc. vars: Badavan (U.P.) and Khalsa (Punjab)	1,334,000
Kundhi (Sind)	589,000
Mehsana (Baroda) inc. var: Banni (Cutch)	510,000
Nili (Punjab)	1,480,000
Ravi (Punjab)	1,958,000
Jafrabadi (Kathiawar) — large coiled horns	400,000
Surti (Bombay) — medium horns	300,000
Centre and South (dairy-draft or draft)	
Nagpuri (Central Provinces) — long horns	400,000
South Indian Draft	
Hassan (Mysore)	
Kimedi (Madras-Orissa)	
Parlakimedi (Madras-Orissa) inc. vars: Jerangi, Manda and Peddakimedi	100,000
Kanara (Madras)	
Krishnagiri (Madras)	
Toda (Madras)	31,000
Telingana (Mysore-Madras)	

CATTLE

c. 160,000,000

	Estimated number (*India*, 1946)
Large dairy type	
Red Sindhi	251,000
Sahiwal	952,000
Lyre-horned type	
Kankrej	770,000
Kenwariya (United Provinces only)	1,031,000
Ponwar, Kherigarh, Malvi	6,684,000
Tharparkar	4,950,000
Grey-white short-horned type	562,000
Bachaur	600,000
Bhagnari	400,000
var: Dajjal	1,266,000
Gaolao	440,000
Hariana	770,000
Hissar	4,811,000
Krishna Valley	650,000
Mewati	400,000
Nagori	150,000
Ongole	1,502,000
Rath	200,000
Sanchori	150,000
Dhanni type (Punjab)	
Dhanni	1,225,000
Mysore type (South) rapid draft	
Alambadi	457,000
Amrit Mahal	20,000
Bargur	110,000
Hallikar	1,749,000
Kangayam	1,040,000
Khillari	675,000
Gir type (West) milk and slow draft	
Gir	790,000
Dangi	550,000
Deoni	650,000
Nimari (Gir × Khillari)	300,000
Hill type (Himalayas, Baluchistan, etc.)	
Kumauni	
Las Bela	
Lohani	50,000
Morang	
Purnea	750,000
Rojhan	
Siri	50,000

SHEEP

North-West fat-tailed (coarse-wooled)

Baluchistan
- Baluchi (vars: Kachi and Mengli)
- Bibrik (var: Khetrani)
- Dumari
- Rakhshani (vars: Jhalawani and Sarawani)
- Taraki

North West Frontier Province

Balkhi	Peshawri	Waziri
Hastnagri	Tirahi	

North-West thin-tailed (coarse-wooled)

North West Frontier Province

Damani	Watni	
Kaghani		

Kashmir

Bhakarwal	Gurez	Banihal
Chanthan	Karnah	Jhelum Valley

West Punjab

Lohi	Par
Thal	Push-te-koh

East Punjab
- Bagri
- Bhadarwah, Biangi } Kangra Valley
- Hissar Dale (medium wool)

Sind
- Kuka

Rajputana
- Bikaneri
- Malini and Mogra (Jodhpur)

Centre and North (coarse-wooled and thin-tailed)

Sikhim
- Sikhim (native breed)

United Provinces
- Jalauni
- Fatehpuri and Garwali

Central India
- Bundelkhandi

Central Provinces
- Dhamda
- Berari

South

(see overleaf)

SHEEP (continued)

South

	South India hairy type	coarse-wooled breeds
Orissa	Ganjam	Dakshini
Hyderabad	Godavari	Telingana
	Marathwada	
Bombay	Tenguri	Kathiawari
		Gujarati
		Deccani
Mysore	Mandya	Hassan
Madras	Nellore	Bellary
	South Madras	Coimbatore

Percentage of hairy and coarse-wooled sheep (*Chakravarty and Haq*, 1946)

	hairy	coarse-wooled
Orissa	100	—
Hyderabad	14	86
Bombay	?	?
Mysore	5	95
Madras	68	32

GOAT

Baluchistan
- Baluchi

N.W. Frontier Province
- Damani
- Sirli
- Kaghani

Kashmir
- Kashmir

West Punjab
- Dera Din Panah
- Salt Range

East Punjab
- Chigu
- Gaddi
- Beetal

United Provinces
- Barbari
- Jamna Pari

Assam
- Assam Hill
- Manipuri

Bengal
- Bengal Black
- White Bearded Bengal

Sind
- Bari
- Chaper
- Jablu
- Kamori
- Leri
- Thori

Rajputana
- Bikaneri
- Marwari

Bombay
- Cutchi
- Bhungri
- Mehsana
- Sirchi
- Surti
- Zalawadi

Central Provinces
- Berari

Hyderabad
- Osmanabad
- Tellingani

Orissa
- Ganjam

Madras
- Malabar

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CHINA

(including Mongolia, Manchuria, Tibet and Sinkiang)

HORSE

- Mongolian type
  - Mongolian Pony
    - vars: Hailar, Sanpaitze, Sining (with Nanfan blood), and Wuchuminsin
  - Ili
- South-East Asia pony type
  - South China Pony
  - Nanfan (Tibetan Pony)
  - Sikong (Nanfan × South China)

ASS

- Chinese

CATTLE

- With zebu blood
  - Chinese Yellow
- Turano-Mongolian type
  - Mongolian
  - Tibetan (dwarf)

BUFFALO

- Chinese

SHEEP

- Fat-tailed
  - Mongolian . . . . . *c.* 50 %
    - vars: Hanyang (Shansi), Khalkhas (Outer Mongolia), Tan (Shensi), Wusih (Kiangsu-Chekiang), *et al.*
  - Tungchow
- Short-tailed
  - Tibetan . . . . . *c.* 33 %
- Fat-rumped
  - Kazakh (Sinkiang)

GOAT

- Many varieties

PIG

- North China
- South China (inc. Cantonese and Yungchang)

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JAPAN

HORSE

1,154,000 in 1946
1,091,000 in 1948 (June)

Thoroughbred and Arab crosses on native
Anglo-Norman and Percheron crosses on native

CATTLE

1,910,000 in 1946
2,103,000 in 1948 (Feb.)

	Percentage in 1946
Japanese	87.5
Korean	
Friesian	9.5
Shorthorn crosses	1.7
Ayrshire	0.5
Other dairy	0.5
Aberdeen-Angus crosses	0.3

SHEEP

239,000 in 1946
291,000 in 1948 (Feb.)

	Percentage in 1946
Corriedale	90
Rambouillet	10

GOAT

348,000 in 1948 (Feb.)

PIG

110,000 in 1946
205,000 in 1948 (Feb.)

	Percentage in 1946
Large White	90
Berkshire	5
Crosses	5

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SOUTH-EAST ASIA

Burma, Siam, Indo-China, Malaya, Indonesia, Philippines

HORSE

South-East Asia Pony
- Shan (Burma)
- Siamese
- Annamese and Cambodian (Indo-China)
- Batak and Gayoe (Sumatra)
- Sandalwood, Sumbawa and Timor (Lesser Sunda Is.)
- Macassar (Celebes)
- Philippine

CATTLE

Zebu
- Burmese
- Siamese
- Siam-Kedah (N. and E. Malaya) inc. vars: Kelantan and Trengganu
- Achin and Sumatran (Sumatra)
- Sindhi, Sahiwal and Ongole (imported from India)

Zebu of banteng origin
- Javanese, Madurese, Balinese } (Indonesia)

Part Zebu
- Indo-Chinese
- Philippine Native
- Batanges (Philippines)

BUFFALO
- Burmese
- Siamese
- Malayan
- Indo-Chinese
- Indonesian
- Philippine (carabão)
- Murrah (imported from India)

SHEEP

Coarse-wooled
- Burmese
- Kelantan (Malaya; also imported into Indo-China)
- Preanger (Java)

Hairy, fat-tailed
- Donggala (Celebes)
- Javanese

PIG

Chinese (Indo-China and Malaya)
Annamese (Indo-China)
Siamese
Balinese (Indonesia)
et al.

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AFRICA

Africa has been treated in the same way as Asia. An attempt has been made to classify the native livestock types in the three natural areas into which Africa is divided by the Sahara Desert and the tsetse belt of the Congo Basin, *viz.* North Africa, West A frica, and Eastern and Southern Africa. Since Egyptian livestock are closely related to those in other Middle Eastern countries, Egypt has been included in the Middle East and will be found under Asia (p. 228)

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NORTH AFRICA

Morocco, Algeria, Tunisia; Libya; for Egypt see Middle East

HORSE

Barb (French North Africa)
Nefza Pony (Tunisia)

ASS

Algerian
Moroccan
Tunisian

CATTLE

Brown Atlas type (*brachyceros*)
Moroccan — with varieties in Morocco and Algeria
Guelma — with varieties in E. Algeria and Tunisia
Libyan

SHEEP

Thin-tailed (coarse-wooled)
Berber (Moroccan and Algerian Mountains) — with varieties
Tadla (Morocco — plateaux)
Beni-Guil (Morocco and W. Algeria — hauts plateaux)
Middle Atlas (Morocco) and South Moroccan — mixture of Berber, Tadla and Beni-Guil
Beni-Ahsen, Doukkala and Zemmour (Morocco — plains)
Algerian Arab (S. Algeria)
Fat-tailed (coarse-wooled) (Middle East fat-tailed type)
Barbary (Tunisia and Libya)

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WEST AFRICA

French West Africa, Chad and Cameroons (French Equatorial Africa)
Nigeria, Gold Coast, Sierra Leone, and Gambia
Liberia and Portuguese Guinea

CATTLE

- Lake Chad cattle
  - Kuri
  - Kuri × zebu crosses
- Small humpless cattle
  - Dwarf Shorthorn (coast)
  - N'Dama (French Guinea, Senegal, and Sierra Leone)
  - Baoulé (Ivory Coast)
  - Gold Coast Shorthorn
- Humped × small humpless crosses
  - Djakoré (Senegal)
  - Bambara or Meré (French Sudan)
  - "Sanga" (Gold Coast)
  - Borgu (Nigeria and Dahomey)
  - Biu (Nigeria)
- Humped cattle (zebus)
  - Short-horned zebus
    - Maure (Mauritania)
    - Tuareg (French Sudan)
    - Azaouak (French Niger)
    - Shuwa (Nigeria and Chad)
    - Fellata (Chad)
    - Sokoto (Nigeria)
  - Medium-horned zebus
    - Diali (French Niger)
    - Adamawa Fulani (Cameroons)
  - Lyre-horned zebus
    - Senegal Fulani
    - Sudanese Fulani (French Sudan)
    - White Fulani (Nigeria)
  - Long-lyre-horned zebus
    - Red Bororo (French Niger, Chad and Cameroons)

HORSE

Arab-Barb (esp. in west)
- Hodh
- Sahel
- Bélédougou
- Southern Sudan

Arab-Barb-Dongola (Niger bend)
- Djerma
- Songhaï
- Bandiagara
- Mossi
- Yagha

Dongola (esp. in east)
- Bahr-El-Ghazal (Chad)
- Hausa (Nigeria)

Ponies (esp. in south)
- M'Bayar and M'Par (Senegal)
- Koto-Koli (N. Dahomey)
- Kirdi (S.W. Chad)
- Torodi (Niger Colony)
- Bobo (N. Ivory Coast)

SHEEP

Wooled
- Macina (French Sudan)

Hairy

West African Long-legged (African long-legged type)
- Maure or Arab (white short-haired and black long-haired varieties)
- Tuareg
- Fulani
  - varieties: Toronké (French Sudan and Senegal)
    Sambourou (French Sudan)
    Bali-Bali (French Niger)
    Uda (N. Nigeria, Chad and N. Cameroons)
    Bornu (N. Nigeria, Chad and N. Cameroons)

West African Dwarf or Fouta Djallon (in the south)

GOAT

Long-legged (Sahel)
Dwarf (Fouta Djallon)
Intermediate (inc. Sokoto or Maradi *et al.*)

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EASTERN and SOUTHERN AFRICA

Anglo-Egyptian Sudan, Eritrea, Ethiopia and Somaliland
Uganda, Kenya and Tanganyika
Northern Rhodesia, Southern Rhodesia and Nyasaland
Belgian Congo, Angola, Mozambique and Madagascar
Union of South Africa, Bechuanaland, Basutoland, Swaziland and South-West Africa

HORSE

Dongola (Sudan and Ethiopia)
Galla (Ethiopia)
Somali Pony (Somaliland and Kenya)
Basuto Pony

ASS

Sudanese
Abyssinian
Somali
Masai, Muscat } East Africa

CATTLE

Sanga

Ankole (S. Uganda, N.W. Tanganyika, and E. Belgian Congo, inc. Ruanda-Urundi)
Baila (N. Rhodesia)
Mashona (S. Rhodesia)
Matabele (S. Rhodesia)
Setswana (Bechuanaland and surroundings)
  Barotse (N. Rhodesia and E. Angola)
  Batawana (N.W. Bechuanaland)
  Damara (S.W. Africa)
Ambo (S.W. Africa and S. Angola)
Zulu or Swazi (Zululand, Swaziland and S. Mozambique)
Bolowana (Cape Province)

Sanga × short-horned zebu [?]

Aradó (Eritrea)
Uoghera (Ethiopia)
Sudanese Longhorn (A.-E. Sudan)
Wadai-Dinka (N.E. Belgian Congo)
Nganda (Uganda)

Lateral-horned Zebu

Afrikaner (S. Africa)

CATTLE (continued)

East African Shorthorned Zebu

Anglo-Egyptian Sudan
Sudanese

Eritrea and Ethiopia
Begait or Abyssinian

Somaliland
Jiddu
Boran
Gherra
Magal

Belgian Congo
Lugwaret

Uganda
West Nile
Karamoja
Bukedi

Kenya
Boran
Nandi
and many local varieties

Tanganyika
Nyasaland
N.E. Mozambique
N. Rhodesia (N.E.)
Angoni
Madagascar?

SHEEP (all hairy)

Fat-rumped
Somali
Blackhead Persian

African long-legged (long-thin-tail)
Sudanese
Congo
Baluba (Congo)
Zaghawa (N.W. Darfur, Sudan)

East African fat-tailed
Abyssinian
Masai (Kenya and Tanganyika)
Madagascar

Long-fat-tailed
Shoa (Abyssinia)
Tanganyika Long-tailed
Afrikaner (S. Africa)

GOAT

Sudanese (vars: Nubian, Desert and Nilotic)
Abyssinian
Shukria (Eritrea)
Galla (Kenya)
Tanganyika
Marungu (Congo)
Bahu (Congo)
Boer (S. Africa)

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AMERICA

(North and South)

Certain of the countries of Central America and of tropical South America, as well as the West Indian islands, have had to be omitted owing to the absence of any precise information on the breed composition of their livestock

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ARGENTINA

HORSE

8,319,000 in 1937
7,238,000 in 1947 (June)

	Number in 1937 (*Argentina*, 1941)
Saddle horses (Thoroughbred, Criollo, etc.)	2,571,000
Draft horses (Percheron, Shire, Clydesdale, etc.)	4,301,000

ASS

501,000 in 1947 (June) (inc. mules)

Poitou, Catalan, American and Criollo

CATTLE

41,268,000 in 1947 (June)

	Total pedigree registrations up to 1939 (*Pastoral Rev.*, 1941)
Shorthorn	444,062
Polled Shorthorn	445
Hereford	97,418
Aberdeen-Angus	83,679
Holando-Argentino (Friesian)	11,853
Red Poll	3,247
19 other breeds	7,645

SHEEP

44,413,000 in 1930
54,800,000 in 1948

	Percentage of purebreds or grades in 1930 (*Link*, 1934)
Lincoln	32.65
Argentine Merino	29.90
Romney Marsh	17.62
Corriedale	7.65
Australian Merino	2.55
Hampshire Down	0.85
Oxford Down	0.05
Shropshire	0.02
Karakul	0.003
Criollo and others	9.52

GOAT

4,934,000 in 1947

PIG

3,956,000 in 1937
2,981,000 in 1947 (June)

Duroc and crosses	⅓ (1937)

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BRAZIL

HORSE

6,770,000 in 1947 (Jan.)

Native breeds

Mangalarga — Mimoso
Campolino — Bahia
Crioulo

ASS

1,370,000 in 1947 (Jan.)

Native breeds

Brazilian
Pêga
Northeastern

CATTLE

46,360,000 in 1947 (Jan.)

Iberian type

Crioulo — Pantaneiro
Curraleiro — Brazilian Polled
Igarapé

Long-horned type

Caracú — Junqueiro
Franqueiro — Pedreiro

Crioulo type with zebu blood

China
Guademar
Malabar

Zebu

Indo-Brazilian
(also Gir, Kankrej, and Ongole)

Imported European breeds

Dairy: Turino (Friesian), Flemish, Jersey
Dual-purpose: Normandy, Red Poll, Swiss Brown, Simmental
Beef: Shorthorn, Hereford, Devon, Aberdeen-Angus, Charollais

SHEEP

15,542,000 in 1946 (Dec.)

Percentag
(*Link*, 194

Breeds in Rio Grande do Sul

"Mestiza" (= improved Criollo) 7
Merino 1
Romney 1
Corriedale 1
Blackface Down breeds . . . . . .
Others . . . . . .

N.B. *c.* 60 % *of Brazil's sheep are in Rio Grande do Sul*

GOAT

7,363,000 in 1946 (Dec.)

Native breeds

Curaçá (or Marota)	Canindé (Ceará)
Moxotó	Meridional

Imported breeds

Anglo-Nubian	Saanen
Murcian	Angora
Toggenburg	

PIG

23,815,000 in 1947 (Jan.)

Native breeds of Chinese origin

Tatú or Bahia
Pirapitinga

Native breeds of Iberian type

Canastra	Pereira
Nilo	Piau

Native breeds of Celtic type

Canastrão

Other native breeds

Caruncho

Imported breeds

Duroc	Berkshire	Large Black
Poland-China	Hampshire	Wessex Saddleback

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CANADA

HORSE

1,905,000 in 1948 (June)

	Number of new pedigree registrations in 1949 (*Canada*, 1950)
American Trotter	605
Thoroughbred	507
Percheron	245
Clydesdale	213
Belgian	185
Hackney	81
Saddle Horse	61
Pony	49
Canadian	38
Hunter	18

CATTLE

25,968,000 in 1949

Holstein-Friesian	58,292
Hereford	24,133
Shorthorn	19,678
Ayrshire	14,292
Jersey	14,096
Aberdeen-Angus	5,048
Guernsey	3,751
Canadian	1,231
Red Poll	763
Brown Swiss	61
Galloway	42
Highland	25

SHEEP

2,075,000 in 1949

Suffolk	5,192
Southdown	1,769
Oxford Down	1,453
Hampshire	961
Border Leicester	874
Shropshire	768
Cheviot	586
Dorset Horn	218
Rambouillet	205
Lincoln	154
Cotswold	116
Karakul	69
North Country Cheviot	61
Romney Marsh	38
Canadian Corriedale	17

PIG

5,163,000 in 1949

	Number of new pedigree registrations in 1949 (*Canada*, 1950)
Yorkshire (Large White)	19,342
Tamworth	1,665
Canadian Berkshire	733
Duroc	183
Chester White	74

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CHILE

HORSE

523,000 in 1948 (June)

	Percentage in 1948 (*Concha*, 1948)
Carriage horses (Hackney and Cleveland Bay)	40
Chilean Criollo	25
Thoroughbred and crosses	20
Heavy draft (Percheron and crosses)	15

ASS

52,000 in 1936 (Apr.)

CATTLE

2,310,000 in 1948 (June)

Shorthorn
Aberdeen-Angus
Friesian

SHEEP

6,435,000 in 1948

	Percentage (*Link*, 1948)
Corriedale	40
Hampshire Down	25
Criollo	22
Romney	7
Merino	4
Suffolk	2

GOAT

636,000 in 1948

Criollo, with a few Anglo-Nubian and Saanen

PIG

585,000 in 1948 (June)

Berkshire
Large White
Duroc
Poland-China

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COLOMBIA

HORSE

1,142,000 in 1947 (Dec.)

ASS

267,000 in 1947 (Dec.)

CATTLE

c. 11,000,000 in 1942
13,902,000 in 1947 (Dec.)

	Estimated number (*Moore*, 1945)
Criollo	?
Horned Sinú	2—3,000,000
Polled Sinú	100,000
Black-eared White	»

SHEEP

1,022,000 in 1947 (Dec.)

Criollo, Romney Marsh, etc.

GOAT

461,000 in 1947 (Dec.)

PIG

2,162,000 in 1947 (Dec.)

Criollo

Duroc, Berkshire, Poland-China, Hampshire, and Chester White

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MEXICO

HORSE
2,685,000 in 1948 (Jan.)

ASS
2,505,000 in 1948 (Jan.)

CATTLE
12,743,000 in 1947 (Dec.)

	Approx. percentage (*Smith*, 1944)
Criollo	90
Purebreds (chiefly Hereford)	10

SHEEP
4,897,000 in 1948 (Jan.)

GOAT
6,894,000 in 1948 (Jan.)

PIG
5,622,000 in 1949 (Dec.)
Cuino (Chinese origin) (rare) and its crosses with Berkshire
Pelon (Celtic origin) and its crosses with Poland-China
Criollo (Iberian origin) and its crosses with Hampshire and Duroc

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UNITED STATES OF AMERICA

HORSE

6,589,000 in 1948 (Jan.)

	Number of new pedigree registrations in 1947 (*Briggs*, 1949)
Draft	
Belgian	619
Percheron	449
Shire	?
Clydesdale	?
Suffolk	?
Light Harness	
American Trotter (Standardbred)	?
Morgan	687
Hackney	?
Saddle	
Thoroughbred	7,585
Tennessee Walking Horse	(1948) *c.* 5,000
American Saddle Horse	(1947-48) 4,370
American Quarter Horse	(average 1941-47 inc.) 1,644
Arab	(3,700 living) ?
Ponies	
Shetland, Welsh, and Hackney	

ASS

48,000 in 1931

CATTLE

78,126,000 in 1948 (Jan.)

	Number of new pedigree registrations in 1947 (*U.S.D.A.*, 1949)
Dairy	
Holstein-Friesian	152,739
Guernsey	91,279
Jersey	86,376
Ayrshire	30,046
Brown Swiss	22,469
Minor breed — Dutch Belted	
Beef and Dual-Purpose	
Hereford	356,530
Aberdeen-Angus	81,992
Shorthorn (beef, milking and polled)	80,853
Polled Hereford	33,000
Brahman	14,928
Red Poll	4,366
Minor breeds — Galloway, Highland, Devon, Santa Gertrudis	

SHEEP

45,577,000 in 1930
34,827,000 in 1948 (Jan.)

	Percentage among purebreds of 13 breeds in 1930 (*Von Bergen and Mauersberger*, 1938)	Number of new pedigree registrations in 1947 (*Briggs*, 1949)
Rambouillet	28.2	11,057
Hampshire Down	23.9	30,435
Shropshire	21.0	19,000
Merino	13.0	(1946) 3,578
Oxford Down	3.1	?
Southdown	3.0	9,045
Lincoln	1.7	?
Cotswold	1.5	?
Corriedale	1.3	11,736
Dorset Horn	1.1	3,275
Cheviot	1.1	2,261
Romney Marsh	0.6	1,660
Suffolk	0.5	?

Minor breeds — Leicester, Scottish Blackface, Tunis, Karakul, Ryeland

New breeds — Colombia, Panama, Targhee, Romeldale, Montadale

GOAT

Mohair

Angora . . . . . 3,729,000 clipped in 1947

Dairy

Common American . . . . . most numerous

Toggenburg and Saanen

Anglo-Nubian, French Alpine and Rock Alpine . . . few

PIG

55,028,000 in 1948 (Jan.)

Lard type	Number of new pedigree registrations in 1947 (*Briggs*, 1949)
Duroc	100,259
Spotted Poland-China	48,154
Hampshire	48,153
Poland-China	30,728
Chester White	(1946-47) 27,247
Berkshire	*c.* 25,000
O.I.C.	15,785
Hereford	?
Bacon type	
Yorkshire (Large White)	4,766
Tamworth	1,156
Minnesota No. 1	(1946 and 1947) 3,414

Minor breeds

Cheshire, Essex, Victoria, Minnesota No. 2 and Kentucky Red Berkshire

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URUGUAY

HORSE

575,000 in 1946 (May)

CATTLE

6,821,000 in 1946 (May)

	Percentage in 1946
Hereford	56.1
Shorthorn	6.9
Aberdeen-Angus	0.8
Dairy breeds	8.4
Crossbreds or not specified	27.8

	Percentage of dairy breeds
Friesian	47.2
Normandy	21.3
Dairy Shorthorn, Jersey, Brown Swiss, etc.	31.5

SHEEP

19,559,000 in 1946 (May)
22,000,000 in 1948 (May)

	Percentage in 1946
Corriedale	22.4
Merino	11.2
Romney Marsh	11.0
Polwarth	2.3
Lincoln	2.2
Blackface Down breeds	0.1
Other breeds	2.2
Crossbreds	48.6

GOAT

14,000 in 1946 (May)

PIG

275,000 in 1946 (May)

	Percentage in 1946
Duroc	8.6
Berkshire	8.5
Other breeds	21.4
Crosses or not specified	61.5

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AUSTRALIA

Livestock statistics are from Pastoral Review, **59**: 995

HORSE

1,114,000 in 1949 (Mar.)

Farm horses are mostly Clydesdale

CATTLE

4,860,000 dairy cattle in 1949 (Mar.)
9,261,000 beef cattle in 1949 (Mar.)

Official Australian Pure-bred Dairy Cattle Production Recording Scheme. Cows completing lactations 1948-49

	Percentage *
Dairy	
Jersey	56
Australian Illawarra Shorthorn	23
Guernsey	8
Ayrshire	6
Friesian	3
Dairy Shorthorn	2
Red Poll	2

Beef	Number of registered stud beef cattle (*O'Loghlen*, 1950)
Hereford	14,400
Shorthorn	10,500
Aberdeen-Angus	?
Poll Hereford	4,080
Red Poll	3,900
Poll Shorthorn	3,400
Devon	940

SHEEP

108,728,000 in 1949 (Mar.)

	Percentage in 1947 (*Pastoral Review*, *58*:984)
Merino	70
Comebacks	6
Other breeds (Border Leicester, Corriedale, Dorset Horn, Romney Marsh, Southdown, Polwarth, Leicester, *et al.*)	5.1
Crossbreds	18.9

GOAT

85,000 in 1939 (Dec.)

* These figures were obtained as follows. The number of cows of each breed in each State completing lactations was noted from reports in the six journals of State Departments of Agriculture. The breed numbers were calculated as percentages of the total cows tested in each State. The State percentages for breeds were weighted by the total dairy cows in the State and the weighted figures averaged.

PIG

1,196,000 in 1949 (Mar.)

	Mean annual number of registrations 1941-44 expressed as percentage (*Pullar*, 1942)
Berkshire	46.6
Tamworth	24.6
Large White	20.3
Wessex Saddleback	3.7
Middle White	3.6
Large Black	0.7
Poland-China	0.3
Duroc	0.2

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NEW ZEALAND

HORSE

204,000 in 1948 (Jan.)

	Number of horses on farms, 1947 (*N.Z. Dep. Agric.*, 1948)
Draft and $^3/_4$-draft	86,694
Spring-cart or light-artillery (inc. $^1/_2$-draft)	34,921
Hacks and light working horses	71,317
Thoroughbreds and other horses	13,643
Total	206,575

CATTLE

4,716,000 in 1948 (Jan.)

	Number in 1947 (*N.Z. Dep. Agric.*, 1948)
Dairy stock	2,585,810
Jersey (pure and grade) . . . 85 %	
Dairy Shorthorn, Friesian, Ayrshire, and Red Poll	
Beef stock	2,047,990
Aberdeen-Angus, Hereford, and Beef Shorthorn	
Total	4,633,800

SHEEP

32,682,000 in 1947 (Apr.)
32,483,000 in 1948 (Apr.)

Percentage of rams in 1945 (*Smallfield*, 1947)

North Island		South Island	
Romney	66	Romney	40
Southdown	32	Southdown	25
Lincoln	0.5	Halfbred	10
Halfbred	0.25	Corriedale	9
Ryeland	0.25	Merino	5
		Border Leicester	5
		English Leicester	3
		Ryeland	1.5
		Shropshire	0.5

Breed distribution in 1947 (*New Zealand: Dep. Agric.*, 1948)

	Percentage
Romney	18.8
Halfbred (Longwool × Merino)	6.7
Corriedale	3.4
Merino	2.2
Southdown	1.4
Border Leicester	0.12
English Leicester	0.09
Lincoln	0.08
Ryeland	0.04
Shropshire	0.01
Other breeds (Cheviot, Dorset Horn, Suffolk, etc.)	0.07
Crossbreds (70 % carry Romney blood)	67.2

PIG

548,000 in 1948 (Jan.)

Tamworth, Berkshire and their cross . . .	predominant
Large Black and Large White	less common
Lincoln Red	in process of formation

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SUPPLEMENT

1957

FOREWORD TO SUPPLEMENT

Since the first edition of the *World Dictionary of Breeds, Types and Varieties of Livestock* was published in 1951, there have been several changes in breed status and in breed names and some new breeds have been described in the literature.

This Supplement, therefore, includes both new entries and replacements for entries in the first edition of the dictionary which need correction. The new entries include new breeds, breeds whose description has been noted during the last five years, and additional synonyms for previously noted breeds. The last are entered in the form of cross references from the Supplement to the body of the first edition.

Entries have been amended when the official name for the breed has been changed, when the status of a breed has changed (e.g. become extinct), when it has been thought necessary to change the English rendering of a foreign breed name, when new information has enabled the entry to be expanded from a bare name to a line or more of print, or, in a few cases, when it was necessary to correct an error. The amended entries are marked with an asterisk (*).

If correct usage and nomenclature are required the Supplement should be used in conjunction with the first edition.

As before I have to acknowledge with gratitude assistance from many quarters, in particular that of the Staff of the Commonwealth Bureau of Animal Breeding and Genetics. I should also like to thank especially the following who have checked and corrected the entries concerning their respective countries (or animals): Capt. M. Ashfaq (Pakistan), Dr. J. Belić (Yugoslavia), Prof. S. Berge (Norway), H. B. Carter (sheep), Dr. P. Charlet (France), Prof. Z. Csukás (Hungary), Mr. H. R. Davidson (pigs), H. de Boer (Netherlands), Dr. R. Diaz Montilla (Spain), Prof. J. P. Drew (Ireland), Dr. W. Grabisch (Germany), Prof. A. Horn (Hungary), Dr. P. L. Kaura (Uttar Pradesh, India), S. S. Khot (Bombay, India), Dr. N. Korkman (Sweden and Finland), U. Levi (Israel), M. F. Lievens (Belgium), Prof. H. Lörtscher (Switzerland), Dr. P. Mahadevan (Ceylon), Prof. T. Marchlewski (Poland), H. Messerschmidt (Germany), Dr. K. Mitamura (Japan), J. Nagai (Japan), Dr. A. Neimann-Sørensen (Denmark), Dr. M. Odriozola (Spain), A. Pereira de Matos (Portugal), Dr. E. Quittet (France), A. Rathore (Rajasthan, India), Prof. R. Schmidt and Dr. H. Steinlechner (Austria), Prof. N. Teodoreanu (Romania), Prof. V. Villegas (Philippines).

The following additional abbreviations have been used:

A.E.S. = Agricultural Experiment Station
Agric. = Agricultural
BS = breed society
HB = herd, flock or stud book
recog. = recognised (as a breed)

August 1956

I. L. MASON

ASS

A.B.A. vol. and page

Abkhasian; var. of Georgian; Russ. *Abhazskiĭ* — *20*:11

Georgian (U.S.S.R); Caucasian type; vars: Kakhetian, Meskhet-Javakhet, and Abkhasian — *20*:11

Kakhetian; var. of Georgian; Russ. *Kakhetinskiĭ* — *20*:11

Libyan; smaller (usu. bay with pale belly), and larger (dark bay or gray; saddle type) vars. — *21*:17

Meskhet-Javakhet; var. of Georgian; Russ. *Meshet-Džavahetskiĭ*; not *Meskhet-Dzhavakhet* — *20*:11

Quaramani (Yemen, Arabia); small local type — *19*:418

Subyani (Yemen, Arabia); Sudanese orig. — *19*:418

BUFFALO

**Badavan*: see Bhadawari

*Bhadawari (Agra, Uttar Pradesh, India); d.; sim. to Murrah; copper-coloured with pale legs: syn. *Etawah*; not *Badavan, Badavari* — *10*:16, *20*:407

*carabao (Philippines): see Philippine carabao. [= buffalo]

Etawah: see Bhadawari

Gir: see Jafrabadi

Hungarian (S.W. Hungary); tr.; very few

*Mannar; larger, reddish var. of Ceylon buffalo; not *Manaar, Manar*

Menufi; var. of Egyptian; not *Menoufi* — *19*:441

*Philippine carabao (Philippines); tr.m.; ash grey with white lines below neck. [*carabao* = buffalo; ♀ = *caraballa*] — *7*:302

*Romanian (S. Romania); d.; muzzle may be white; short horns — *8*:3

*Tamankaduwa; d.; largest var. of Ceylon buffalo; not *Tamamkaduwa*

CATTLE

Ala-Tau (E. Kazakhstan, U.S.S.R.); d.m.; brown; orig. (1929 on) at stud farm "Alamedin" from Swiss Brown and Kostroma, < Kirgiz (also some Friesian, Simmental and Aulie-Ata blood); Russ. *Alatauskiĭ* — *19*:440, *20*:24

***Alentejo** (S. of Tagus, Portugal); m.tr.; fawn; Port. *Alentejana*; syn. *Trastagana*; var: Algarve; dark var: Mertola (Port. *Mertolenga*), nearly extinct; not *Alemtejo* — *13*:134, *15*:220 *23*:368-9

Algarve (S. Coast of Portugal); var. of Alentejo; Port. *Algarvia*

*Allgäu: see German Brown; Ger. *Allgäuer*; not *Algau*
*Alur: see Nioka
***Andalusian** (Guadalquivir Valley, S. Spain); m.tr.; sim. to Extremadura; dark mahogany red; lyre horns; Sp. *Retinta* (= *dark*) *Andaluza de la Cuenca del Guadalquivir*; ? orig. of Criollo (S. America) and Texas Longhorn (U.S.A.); see also Black Andalusian, Blond Andalusian — *17*:9, *10*-11, *21*:29-30
*Arab (Syria, Israel and Jordan); tr.; *brachyceros* type; brown to black, or pied; 30 % pd; small; syn. *Anatolian* (Hama), *Bedouin*, *Chaissi*, *Kleiti* (Homs), *Oksh* — *7*:205, *21*:337
Argentine Criollo (N. Argentina); m.tr.; vars: large *Chaqueño* (Chaco), medium *serrano* (S.E. Salta) and small *fronterizo* (5 N. Provinces) — *19*:439-40
***Arouca** (N. Beira, Portugal); d.m.tr.; light to dark chestnut; orig. from Barrosã, Miranda, Minho *et al.*; Port. *Arouquesa*; not *Aroucesa* — *15*:220, *18*:154 *23*:368
*Alsatian Simmental (France); d.m.tr.; orig. from Swiss Simmental; HB fused with Eastern Spotted in 1945 — *1*:235
Austrian Brown; d.m.tr.; Brown Mountain type; Ger. *Braunvieh*; former vars: Montafon (Vorarlberg) and Styrian Brown
Austrian Simmental; d.m.tr.; orig. from Simmental and German Simmental × local; Ger. *Fleckvieh* (= *Spotted cattle*); former vars: Danube, East Styrian, Innviertel, and Unterinntal (Tyrol)

Bamenda (British Cameroons); var. of Adamava
Baria (W. Madagascar); feral; small hump; ? orig. from Zebu × humpless — *23*:17-18
*Barundi (Kivu, Belgian Congo); var. of Ruanda-Urundi; syn. *Kivu* — *21*:28-9
Bashi (Kivu, Belgian Congo); d.m.; Sanga type — *19*:172, *21*:28-9, [*22*:296
Bassanese: see Burlina
Basuto (Basutoland, S. Africa); Sanga type; black — *22*:259
Beira (E. Portugal); tr.m.(d.); var. of Miranda; Port. *Beiroa* — *20*:131
*[Bergscheck] (Styria, Austria); Simmental blood; syn. *Enns*, *Kampeten*, *Mountain Spotted*; not *Spotted Mountain*; extinct *c.* 1950 (absorbed by Austrian Simmental) — *3*:254, *4*:278
Berrenda: see Spanish Pied
Black Andalusian (Córdoba and Seville, S. Spain); tr.m.; sim. to Castille-Leon type; black or black-brown; Sp. *Negra Andaluza* or *Negra de las Campiñas Andaluzas* — *17*:9, *21*:29-30
Black Pied East Belgian: see Hervé
Black Welsh: see Welsh Black
Blond Andalusian (Huelva, S.W. Spain); tr.m.d.; yellow to corn-coloured; Sp. *Rubia andaluza*; syn. *Blond Extremadura* (*Extremeña rubia*); being replaced by Andalusian; *cf.* Alentejo (Portugal) — *21*:29-30

Blue (Belgium): see Central and Upper Belgian
Blue (France): see Bleue du Nord
Blukwa: see Nioka. [from Chief Blukwa]
Boccarda: see Burlina
Bodadi: see Red Bororo
Boenca (Port. Guinea): see N'Dama
Bohinj Pinzgau (Slovenia, Yugoslavia); d.; local graded to Pinzgau; Serbo-Croat, *Bohinjskij Pinzgavac*
Bonsmara (Transvaal, S. Africa); m.; red; orig. *c.* 1938-55 at Mara Cattle Research Station by J. C. Bonsma from Africander ($^5/_8$) × Shorthorn ($^3/_8$) — *24*:337
Bory; pd var. of Madagascar Zebu — *20*:208
Bragança (N.E. Portugal); tr.m.; var. of Miranda — *20*:131
Bra-Swiss (Texas, U.S.A.); m.; Brahman × Brown Swiss, cross — *20*:129
bree (Assam): see yak (♀)
British-Canadian Holstein-Friesian (England); d.; association formed in 1946 to register Friesian cattle imported from Canada 1944-48 and not accepted for British Friesian herdbook — *22*:295
***British White** (Great Britain); d.m.; domestic breed derived from Wild White; Swedish Mountain blood (1949); white with black points; BS 1918; pd only (since 1946); syn. *Park* (1918-46), *White Polled*; 12 herds (1953) — *18*:155, *22*:268
**Bukedi*: see Eastern Province Zebu
***Bulgarian Grey**; tr.(m.d.); Grey Steppe type with some *brachyceros* blood; Bulg. *Sivo mestno* (= *grey native*); vars. inc. Iskur (larger, lowland) and Stara Planina (smaller, mountain;) syn. *Bulgarian Steppe*; orig. of Plevna — *5*:381, *6*:1, *21*:14
Bunyoro: see Bahima

*[Campóo] (W. Santander, Spain); larger, valley var. of Santander; Sp. *Campurriana*; absorbed by Swiss Brown and Friesian (1940's) — *12*:67, *17*:10-11
*Carreño (Asturias, N. Spain); tr.d.m.; larger, lowland var. of Asturian; red to mahogany; Sp. *Asturiana de los valles*; being crossed with Brown Swiss and Friesian; not *Acreno*; *c.* 6000 only — *17*:10-11, *19*:43
*Caso (Asturias, N. Spain); tr.d.m.; smaller, mountain var. of Asturian; light to dark red; Sp. *Asturiana de las montañas* or *Casina*; *c.* 11,000 only — *17*:10-11, *19*:43
CASTILLE-LEON (Duero Valley, Spain); tr.m.; sim. to Spanish Mountain; black; inc. Avila, Salamanca, Zamora; Sp. *Castellano-Leonese*; syn. Avila type — *21*:29-30
***Central and Upper Belgian** (Belgium); d.m.; white, blue-pied, or blue; orig. from Shorthorn and Dutch Friesian × local; Fr. *Race de la Moyenne et de la Haute Belgique*, Fl. *Ras van Midden- en Hoog-België*; syn. *Belgian Blue, Belgian White and Blue Pied, Blue, Mid-Belgian, White* — *2*:109-10, *4*:173, *8*:363-4, *16*:111-2

Hutsul (Bucovina, W. Ukraine, U.S.S.R.); orig. from Moldavian × Carpathian Brown — *24*:17

Induberaba, Indú-Brasil: see Indo-Brazilian

*Irish Moiled (N. Ireland); d.m.; usu. red or roan; syn. *Irish Polled*; not *Maoile, Maol, Maoline, Moile, Moyle*. [moiled = pd]

*Iskur (N. Bulgaria); tr.(d.m.); larger, lowland var. (or syn.) of Bulgarian Grey; Bulg. *Iskărsko*; syn. *Vit*; not *Iskar, Isker* — *5*:181, *6*:1, *21*:142

Israeli Friesian (Israel); d.; orig. from local (Damascus, Lebanese and Arab) graded to Friesian imported from Netherlands (since 1922), Canada (1946), and U.S.A. (till 1955)

Jamaica Brahman; m.; orig. from Ongole, Hissar and Mysore zebus; BS and HB 1949 — *19*:352, *24*:77

***Jamaica Hope**; d.; orig. (1920-52) from Jersey ($^3/_4$—$^7/_8$) × zebu (chiefly 1 Sahiwal ♂) at Hope Stock Farm; syn. *Montgomery-Jersey, Jersey-Zebu*; not *Jamaica Jerbu*; BS and HB 1953 — *20*:319, *22*:28

*Japanese; m.tr.(d.); native orig. with some European blood; vars: Japanese Black, Japanese Brown, Japanese Polled (black; Aberdeen-Angus blood); Jap. *Wagyu* (= Japanese cattle) — *16*:9 *21*:346

*Jarmelo (Beira, Portugal); d.; local var. of Miranda; Port. *Jarmelista*; disappearing — *15*:220

Jathi madu: see Umblachery

je (Assam): see zo

jommu (Assam); ♀ of zo, *q.v.*

joppa (Assam): see zo

Kachhi (Baluchistan, Pakistan): see Bhagnari

Kachhi (Cutch, India): see Cutchi

Karacabey-Montafon (N.W. Anatolia, Turkey); orig. from Montafon × Anatolian Black since 1925 — *20*:303

Kemerovo (Siberia); d.m.; orig. (1930-53) from Siberian crossed first with Simmental, Kholmogor or Ukrainian Red, and then with East Friesian or its grades — *21*:237

**Kenia* (Ceylon): see Kinniya

Khandari: see Red Khandari

*Kinniya (Mahaweli Ganga, Ceylon); z.; local var. sim. to Mysore type; grey; not *Kenia*

**Kivu*: see Barundi

*Kłodzko (Silesia, Poland); tr.d.; red or brown with white head, back stripe, and belly; orig. from Sudeten; Ger. *Glatzer Gebirgsrind* (= *Glatz Mountain*); syn. *Silesian White-back*; disappearing — *2*:207-8, *23*:128

Kula (NW.. Bulgaria); d.m.tr.; orig. (1951) from Simmental (first imported 1894) × Iskur; Bulg. *Kulsko*

Landim (Mozambique): see Nguni

**Land Shorthorn* (Germany): see German Shorthorn

***Lidia** (Spain); bulls for fighting (*toro de lidia* or *ganado bravo*) are bred in Andalusia, Extremadura, New Castille (Jarama), and Salamanca; usu. black or dark brown — *17*:9, *21*:29-30

*[Liébana] (W. Santander, Spain); smaller, highland var. of Santander; Sp. *Lebaniego*; syn. *Picos de Europa*; absorbed by Swiss Brown (1940's) — *18*:373

Limburg (Nassau, Germany): see Lahn var. of Yellow Hill

Limia & Verin (S. Galicia, Spain); var. of Galician Blond with Spanish Mountain blood; Sp. *Limiana y Verinesa*

**Lincolnshire Beef Poll*: see Polled Lincoln Red

Lower Guadiana Spotted: see Mertola (1)

Magyar: see Hungarian

*Målselv (Norway); red; usu. pd; orig. from Dutch (to 1860) and Ayrshire (1860-1900) × local; combined with Red Trondheim in 1951

Manjaca (Port. Guinea); local var. of West African Dwarf Shorthorn — *23*:16-17

*Mariahof (Austria); sim. to Carinthian Blond; white; syn. *Steierisches Blondvieh* (*Styrian Blond*); extinct in Austria (remnant merged in Carinthian Blond); in Slovenia (Yugoslavia) called *Plava* (= *blond*) — *3*:254

Marinhoa (N.W. Coast of Portugal); tr.m.; var. of Miranda

Maronesa (Terra Quente, N.E. Portugal); m.tr.; orig. from Barrosã × Miranda

Mauritius Creole (Indian Ocean); d.; usu. white, white with coloured flecks, brown, or brown and white; pd; ? Fr. orig. — *21*:134

Mayumbe (Belgian Congo) = Lagoon cattle imported from Dahomey

Mertola (S. Portugal); Port. *Mertolenga*: — *23*:368-9

1. in S.; tr.; red pied; orig. from Spanish Pied; syn. *Spotted cattle of the lower Guadiana* (Port. *Malhada do baixo Guadiana*)
2. dark var. of Alentejo; nearly extinct
3. S. of Tagus; Alentejo × Lidia; syn. *Charnequeiro*

Mid-Belgian: see Central and Upper Belgian

**Mölltal* (Venetia, Italy): see Pinzgau; formerly used for var. of Pinzgau in N.E. Udine as distinct from Pinzgau and Pusteria in N.E. Bolzano; not *Mölthal*

Mottai madu: see Umblachery

***Murnau-Werdenfels** (Weilheim-Garmisch-Landsberg, Bavaria, Germany); d.m.tr.; local breed sim. to German Brown but smaller and more red-yellow in colour; Ger. *Murnau-Werdenfelser*

Nari: see Bhagnari

"N'Dama Sanga" (Gold Coast); N'Dama × Zebu × Gold Coast Shorthorn — *19*:439

*Nelthropp (Leeward Isles, West Indies); d.m.; red; pd; orig. (1918-49) from Red Poll × smaller var. of Senegal N'Dama imported in 1860 to Nelthropp herd, St. Croix; to Antigua 1945 and called Nelthropp; syn. *Senepol* (U.S. Virgin Isles); not *Nelthrop* — *20*:399, *22*:386

N'Gabou (Port. Guinea); white with black points; ? orig. from N'Dama with Senegal Fulani blood; syn. *Fula, Gabú*; cf. Djakoré (Senegal) — *23*:16-17

***Nguni** (Zululand and Swaziland, S. Africa, and Mozambique S. of R. Save); d.tr.; Sanga type; often colour-sided (Nkone); syn. *Save, Swazi, Zulu*; not *Ngune* — *5*:12, *15*:236, *18*:155, *20*:131, 317, *21*:135-6

*Nioka (W. of L. Albert, Belgian Congo); orig. from Bahima × Lugwaret; syn. *Alur, Blukwa* — *21*:16, 28, 30

North Manchurian Dairy (Manchuria); d.tr.; usu. red pied; orig. from Simmental from Russia × local Mongolian

*Oksh (Syria): see Arab

pamjommu (Assam); yak × glang, F_1; syn. *urang* (Nepal); reciprocal cross is *zo, q.v.* — *15*:150

Pantelleria (Italy); d.; mixed colours; Brown Alpine and Simmental blood — *24*:131

Pechora (N. European U.S.S.R.); d.; orig. 16th to 20th c.; from Zyryanka cattle of Komi and from Mezen; improved by Kholmogor since 1930; Russ. *Pečorskii* — *19*:438

Pešter (Montenegro, Yugoslavia); local, heavier var. of Buša; Serbo-Croat, *Pešterska* — *22*:296-7

Picos de Europa: see Liébana

*Polled Lincoln Red (Lincolnshire, England); b.; herd started by E. Pentecost *c.* 1940 from red Aberdeen-Angus × Lincoln Red Shorthorn; syn. *Lincolnshire Beef Poll* — *19*:43, *21*:321, 412

Polled Sussex (S. Africa); m.; in formation (1950 on) from red Aberdeen-Angus × Sussex — *22*:27, 85

Promurska (Slovenia): see Murboden

Red-and-White Friesian (Great Britain); society formed 1951 to register red var. of British Friesian; 6-7 herds; also small section in Dutch Friesian HB (FRS) — *19*:544

Red Khandari (N. Hyderabad, India); tr.d.; z.; sim. to Deoni but red; syn. *Lakhalbunda* (Berar)

Red Pied Dutch: see Meuse-Rhine-Yssel

Red Sadovo (Plovdiv, Bulgaria); d.; orig. (1883 on) from Angeln × Simmental and Friesian, at Sadovo Agric. School; Bulg. *Červeno sadovsko*; Ger. *Rotes Sadowo* — *21*:137

reem, rimu (Palestine): see urus
retinta (Spain): see Andalusian

*Santander (Spain); m.d.tr.; North Spanish type; former vars: [Campóo] (valley), [Liébana], [Pas], Tudanco (mountain); syn. *Montaña*; Campóo, Liébana and Pas absorbed by Friesian and Swiss Brown — *12*:67, *18*:373
Santander Hairless (Colombia); local; zebu blood; sim. to Horned Sinú but more milk; Sp. *Chino Santandereano* — *21*:124, 335-6
Save (Mozambique): see Nguni
Savoy (Italy): see Tarentaise; It. *Savoiarda*
Senepol: see Nelthropp. [*Sene*gal × Red *Poll*]
Sidon (S. Lebanon); d.; smaller var. of Lebanese
**SLB*: see Swedish Friesian
**Sofia Brown* (S.W. Bulgaria); d.m.; orig. (1951) from native graded to Montafon (first imported 1894); Bulg. *Sofiisko kafjavo*; Ger. *Sofioter Braunvieh*
*Spanish Mountain (mountains of S. and C. Spain); tr.m.; long horns; black or dark brown; Sp. *Serraña* or *agrupaciones serrañas* — *17*:9, *21*:29-30
Spanish Pied (Extremadura and W. Andalusia, Spain); used for herding fighting bulls; Sp. *Berrendas españolas*; vars: black pied and blue roan (Sp. *Berrenda en negro y cardena*), red pied and roan (Sp. *Berrenda en colorado y salinera*); orig. of Mertola (1) (Portugal) — *17*:9
Spotted cattle of the lower Guadiana: see Mertola (1); Port. *bovino malhado do baixo Guadiana*
**Spotted Mountain*: see Austrian Simmental, German Simmental
Spreča (N.E. Bosnia, Yygoslavia); yellow-grey; orig. from Yugoslavian Steppe with Buša blood; Serbo-Croat, *Sprečka*; syn. *Tuzla* — *8*:3-4, *22*:199
*Stara Planina (W. Bulgaria); tr.; dark grey; smaller mountain var. of Bulgarian Grey with more *brachyceros* blood; Bulg. *Staroplaninsko kašorogo* (= *shorthorned*)
Suksun (Molotov, U.S.S.R.); d.; red; orig. from Red Danish and Latvian Red × local; Russ. *Suksunskiĭ* — *24*:233-4
**Swazi*: see Nguni
Swedish Lowland: see Swedish Friesian

Tamankaduwa (Ceylon); local z. var.; usu. white or light; ? orig. from imported Indian breeds
**Tanjore*: see Umblachery
**Taurache*: see Tourache
*Taylor (Patna, Bihar, India); d.; orig. from 4 Shorthorn and Channel Island bulls, imported by Commissioner Taylor in 1856, × local zebu; red, grey or black; no hump; about 2500: not *Taypor* — *20*:321

Taypor: see Taylor

Therkuthi madu: see Umblachery

Tirolese Grey: see Oberinntal; Ger. *Tiroler Grauvieh*

toro de lidia (Spain): see Lidia

*[Tourache] (Franche Comté, E. France); tr.d.; sim. to Fémeline; usu. dark red and white; absorbed by Montbéliard in late 19th and early 20th c.; syn. *Taurache, Comtois*. [? etym.] — *3*:253, *24*:207

Tur: see Shuwa

*[Tux-Zillertal] (Tyrol, Austria); syn. *Tirolese*; vars: Tux (black), Zillertal (red); extinct 1954 — *2*:16-17, *4*:278

Tuzla: see Spreča

*Umblachery (Tanjore, Madras, India); z; local var. sim. to Kangayam but smaller; grey with white points and back line; calves red or brown with white markings; steers dehorned and ears clipped; syn. *Jathi madu, Mottai madu, Tanjore, Therkuthi madu, Southern* — *13*:191

urang (Nepal); yak × Nepalese cow, F_1; ♀ fertile, ♂ infertile; syn. pamjommu (Assam); reciprocal cross is zo, *q.v.* — *22*:312

Varzi: see Tortona; It. *Varzese*

*Vestland Fjord (Norway); usu. dun, also red or black; usu. hd; orig. (1866-95) from black hd (Hordaland) and grey pd (Møre and Ramsdal); Nor. *Vestlandsk fjordfe*; syn. *Fjord, West Coast Fjord, Westland Horned*; combined with Lyngdal & Vestland Red Polled (1947) to form South & West Norwegian — *13*:121-2, *17*:133

*Vestland Red Polled (Norway); Nor. *Vestlandsk raukolle*; syn. *West Coast Red Polled, Westland Polled*; combined with Lyngdal, and then with Vestland Fjord (1947) to form South & West Norwegian

Vychegda-Vym (Komi, U.S.S.R.); d.; black (28 %), black pied (20 %), red or red pied (47 %); pd; Russ. *Vyčegodsko-vymskiĭ* — *21*:133

Wadai-Dinka: see Nilotic

Welsh runt (English Midlands) = Welsh Black bullock

White Guadiana: see White Caceres; Sp. *Blanca guadianesa*

White Horned (Great Britain): see Wild White

White Polled (Great Britain): see British White

"White Sanga" (Gold Coast); White Fulani × Gold Coast Shorthorn — *19*:439

*Wild White (Great Britain); white with black points; 5 herds (1953): Chillingham (Northumberland) - red ears, purebreeding; Cadzow (Lanarkshire) - heterozygous for colour; Vaynol (N. Wales) - Highland blood; Woburn — *8*:227, *17*:224, *18*:155, *22*:268

SUPPLEMENT

1957

FOREWORD TO SUPPLEMENT

Since the first edition of the *World Dictionary of Breeds, Types and Varieties of Livestock* was published in 1951, there have been several changes in breed status and in breed names and some new breeds have been described in the literature.

This Supplement, therefore, includes both new entries and replacements for entries in the first edition of the dictionary which need correction. The new entries include new breeds, breeds whose description has been noted during the last five years, and additional synonyms for previously noted breeds. The last are entered in the form of cross references from the Supplement to the body of the first edition.

Entries have been amended when the official name for the breed has been changed, when the status of a breed has changed (e.g. become extinct), when it has been thought necessary to change the English rendering of a foreign breed name, when new information has enabled the entry to be expanded from a bare name to a line or more of print, or, in a few cases, when it was necessary to correct an error. The amended entries are marked with an asterisk (*).

If correct usage and nomenclature are required the Supplement should be used in conjunction with the first edition.

As before I have to acknowledge with gratitude assistance from many quarters, in particular that of the Staff of the Commonwealth Bureau of Animal Breeding and Genetics. I should also like to thank especially the following who have checked and corrected the entries concerning their respective countries (or animals): Capt. M. Ashfaq (Pakistan), Dr. J. Belić (Yugoslavia), Prof. S. Berge (Norway), H. B. Carter (sheep), Dr. P. Charlet (France), Prof. Z. Csukás (Hungary), Mr. H. R. Davidson (pigs), H. de Boer (Netherlands), Dr. R. Diaz Montilla (Spain), Prof. J. P. Drew (Ireland), Dr. W. Grabisch (Germany), Prof. A. Horn (Hungary), Dr. P. L. Kaura (Uttar Pradesh, India), S. S. Khot (Bombay, India), Dr. N. Korkman (Sweden and Finland), U. Levi (Israel), M. F. Lievens (Belgium), Prof. H. Lörtscher (Switzerland), Dr. P. Mahadevan (Ceylon), Prof. T. Marchlewski (Poland), H. Messerschmidt (Germany), Dr. K. Mitamura (Japan), J. Nagai (Japan), Dr. A. Neimann-Sørensen (Denmark), Dr. M. Odriozola (Spain), A. Pereira de Matos (Portugal), Dr. E. Quittet (France), A. Rathore (Rajasthan, India), Prof. R. Schmidt and Dr. H. Steinlechner (Austria), Prof. N. Teodoreanu (Romania), Prof. V. Villegas (Philippines).

The following additional abbreviations have been used:

A.E.S. = Agricultural Experiment Station
Agric. = Agricultural
BS = breed society
HB = herd, flock or stud book
recog. = recognised (as a breed)

August 1956 I. L. MASON

ASS

	A.B.A. vol. and page
Abkhasian; var. of Georgian; Russ. *Abhazskiĭ*	*20*:11
Georgian (U.S.S.R); Caucasian type; vars: Kakhetian, Meskhet-Javakhet, and Abkhasian	*20*:11
Kakhetian; var. of Georgian; Russ. *Kakhetinskiĭ*	*20*:11
Libyan; smaller (usu. bay with pale belly), and larger (dark bay or gray; saddle type) vars.	*21*:17
Meskhet-Javakhet; var. of Georgian; Russ. *Meshet-Džavahetskiĭ*; not *Meskhet-Dzhavakhet*	*20*:11
Quaramani (Yemen, Arabia); small local type	*19*:418
Subyani (Yemen, Arabia); Sudanese orig.	*19*:418

BUFFALO

**Badavan*: see Bhadawari	
*Bhadawari (Agra, Uttar Pradesh, India); d.; sim. to Murrah; copper-coloured with pale legs: syn. *Etawah*; not *Badavan, Badavari*	*10*:16, *20*:407
*carabao (Philippines): see Philippine carabao. [= buffalo]	
Etawah: see Bhadawari	
Gir: see Jafrabadi	
Hungarian (S.W. Hungary); tr.; very few	
*Mannar; larger, reddish var. of Ceylon buffalo; not *Manaar, Manar*	
Menufi; var. of Egyptian; not *Menoufi*	*19*:441
*Philippine carabao (Philippines); tr.m.; ash grey with white lines below neck. [*carabao* = buffalo; ♀ = *caraballa*]	*7*:302
*Romanian (S. Romania); d.; muzzle may be white; short horns	*8*:3
*Tamankaduwa; d.; largest var. of Ceylon buffalo; not *Tamamkaduwa*	

CATTLE

Ala-Tau (E. Kazakhstan, U.S.S.R.); d.m.; brown; orig. (1929 on) at stud farm "Alamedin" from Swiss Brown and Kostroma, × Kirgiz (also some Friesian, Simmental and Aulie-Ata blood); Russ. *Alatauskiĭ*	*19*:440, *20*:24
***Alentejo** (S. of Tagus, Portugal); m.tr.; fawn; Port. *Alentejana*; syn. *Trastagana*; var: Algarve; dark var: Mertola (Port. *Mertolenga*), nearly extinct; not *Alemtejo*	*13*:134, *15*:220 *23*:368-9
Algarve (S. Coast of Portugal); var. of Alentejo; Port. *Algarvia*	

*Allgäu: see German Brown; Ger. *Allgäuer*; not *Algau*

*Alur: see Nioka

***Andalusian** (Guadalquivir Valley, S. Spain); m.tr.; sim. to Extremadura; dark mahogany red; lyre horns; Sp. *Retinta* (= *dark*) *Andaluza de la Cuenca del Guadalquivir*; ? orig. of Criollo (S. America) and Texas Longhorn (U.S.A.); see also Black Andalusian, Blond Andalusian — *17*:9, *10*-11, *21*:29-30

*Arab (Syria, Israel and Jordan); tr.; *brachyceros* type; brown to black, or pied; 30 % pd; small; syn. *Anatolian* (Hama), *Bedouin*, *Chaissi*, *Kleiti* (Homs), *Oksh* — *7*:205, *21*:337

Argentine Criollo (N. Argentina); m.tr.; vars: large *Chaqueño* (Chaco), medium *serrano* (S.E. Salta) and small *fronterizo* (5 N. Provinces) — *19*:439-40

***Arouca** (N. Beira, Portugal); d.m.tr.; light to dark chestnut; orig. from Barrosã, Miranda, Minho *et al.*; Port. *Arouquesa*; not *Aroucesa* — *15*:220, *18*:154 *23*:368

*Alsatian Simmental (France); d.m.tr.; orig. from Swiss Simmental; HB fused with Eastern Spotted in 1945 — *1*:235

Austrian Brown; d.m.tr.; Brown Mountain type; Ger. *Braunvieh*; former vars: Montafon (Vorarlberg) and Styrian Brown

Austrian Simmental; d.m.tr.; orig. from Simmental and German Simmental × local; Ger. *Fleckvieh* (= *Spotted cattle*); former vars: Danube, East Styrian, Innviertel, and Unterinntal (Tyrol)

Bamenda (British Cameroons); var. of Adamava

Baria (W. Madagascar); feral; small hump; ? orig. from Zebu × humpless — *23*:17-18

*Barundi (Kivu, Belgian Congo); var. of Ruanda-Urundi; syn. *Kivu* — *21*:28-9

Bashi (Kivu, Belgian Congo); d.m.; Sanga type — *19*:172, *21*:28-9, [*22*:296

Bassanese: see Burlina

Basuto (Basutoland, S. Africa); Sanga type; black — *22*:259

Beira (E. Portugal); tr.m.(d.); var. of Miranda; Port. *Beiroa* — *20*:131

*[Bergscheck] (Styria, Austria); Simmental blood; syn. *Enns, Kampeten, Mountain Spotted*; not *Spotted Mountain*; extinct *c.* 1950 (absorbed by Austrian Simmental) — *3*:254, *4*:278

Berrenda: see Spanish Pied

Black Andalusian (Córdoba and Seville, S. Spain); tr.m.; sim. to Castille-Leon type; black or black-brown; Sp. *Negra Andaluza* or *Negra de las Campiñas Andaluzas* — *17*:9, *21*:29-30

Black Pied East Belgian: see Hervé

Black Welsh: see Welsh Black

Blond Andalusian (Huelva, S.W. Spain); tr.m.d.; yellow to corn-coloured; Sp. *Rubia andaluza*; syn. *Blond Extremadura* (*Extremeña rubia*); being replaced by Andalusian; *cf.* Alentejo (Portugal) — *21*:29-30

Kula (NW.. Bulgaria); d.m.tr.; orig. (1951) from Simmental (first imported 1894) × Iskur; Bulg. *Kulsko*

Landim (Mozambique): see Nguni

**Land Shorthorn* (Germany): see German Shorthorn

***Lidia** (Spain); bulls for fighting (*toro de lidia* or *ganado bravo*) are bred in Andalusia, Extremadura, New Castille (Jarama), and Salamanca; usu. black or dark brown — *17*:9, *21*:29-30

*[Liébana] (W. Santander, Spain); smaller, highland var. of Santander; Sp. *Lebaniego*; syn. *Picos de Europa*; absorbed by Swiss Brown (1940's) — *18*:373

Limburg (Nassau, Germany): see Lahn var. of Yellow Hill

Limia & Verin (S. Galicia, Spain); var. of Galician Blond with Spanish Mountain blood; Sp. *Limiana y Verinesa*

**Lincolnshire Beef Poll*: see Polled Lincoln Red

Lower Guadiana Spotted: see Mertola (1)

Magyar: see Hungarian

*Målselv (Norway); red; usu. pd; orig. from Dutch (to 1860) and Ayrshire (1860-1900) × local; combined with Red Trondheim in 1951

Manjaca (Port. Guinea); local var. of West African Dwarf Shorthorn — *23*:16-17

*Mariahof (Austria); sim. to Carinthian Blond; white; syn. *Steierisches Blondvieh* (*Styrian Blond*); extinct in Austria (remnant merged in Carinthian Blond); in Slovenia (Yugoslavia) called *Plava* (= *blond*) — *3*:254

Marinhoa (N.W. Coast of Portugal); tr.m.; var. of Miranda

Maronesa (Terra Quente, N.E. Portugal); m.tr.; orig. from Barrosã × Miranda

Mauritius Creole (Indian Ocean); d.; usu. white, white with coloured flecks, brown, or brown and white; pd; ? Fr. orig. — *21*:134

Mayumbe (Belgian Congo) = Lagoon cattle imported from Dahomey

Mertola (S. Portugal); Port. *Mertolenga*: — *23*:368-9

1. in S.; tr.; red pied; orig. from Spanish Pied; syn. *Spotted cattle of the lower Guadiana* (Port. *Malhada do baixo Guadiana*)
2. dark var. of Alentejo; nearly extinct
3. S. of Tagus; Alentejo × Lidia; syn. *Charnequeiro*

Mid-Belgian: see Central and Upper Belgian

**Mölltal* (Venetia, Italy): see Pinzgau; formerly used for var. of Pinzgau in N.E. Udine as distinct from Pinzgau and Pusteria in N.E. Bolzano; not *Mölthal*

Mottai madu: see Umblachery

***Murnau-Werdenfels** (Weilheim-Garmisch-Landsberg, Bavaria, Germany); d.m.tr.; local breed sim. to German Brown but smaller and more red-yellow in colour; Ger. *Murnau-Werdenfelser*

Nari: see Bhagnari

"N'Dama Sanga" (Gold Coast); N'Dama × Zebu × Gold Coast Shorthorn — *19*:439

*Nelthropp (Leeward Isles, West Indies); d.m.; red; pd; orig. (1918-49) from Red Poll × smaller var. of Senegal N'Dama imported in 1860 to Nelthropp herd, St. Croix; to Antigua 1945 and called Nelthropp; syn. *Senepol* (U.S. Virgin Isles); not *Nelthrop* — *20*:399, *22*:386

N'Gabou (Port. Guinea); white with black points; ? orig. from N'Dama with Senegal Fulani blood; syn. *Fula, Gabú*; cf. Djakoré (Senegal) — *23*:16-17

***Nguni** (Zululand and Swaziland, S. Africa, and Mozambique S. of R. Save); d.tr.; Sanga type; often colour-sided (Nkone); syn. *Save, Swazi, Zulu*; not *Ngune* — *5*:12, *15*:236, *18*:155, *20*:131, 317, *21*:135-6

*Nioka (W. of L. Albert, Belgian Congo); orig. from Bahima × Lugwaret; syn. *Alur, Blukwa* — *21*:16, 28, 30

North Manchurian Dairy (Manchuria); d.tr.; usu. red pied; orig. from Simmental from Russia × local Mongolian

**Oksh* (Syria): see Arab

pamjommu (Assam); yak × glang, F_1; syn. *urang* (Nepal); reciprocal cross is zo, *q.v.* — *15*:150

Pantelleria (Italy); d.; mixed colours; Brown Alpine and Simmental blood — *24*:131

Pechora (N. European U.S.S.R.); d.; orig. 16th to 20th c.; from Zyryanka cattle of Komi and from Mezen; improved by Kholmogor since 1930; Russ. *Pečorskiĭ* — *19*:438

Pešter (Montenegro, Yugoslavia); local, heavier var. of Buša; Serbo-Croat, *Pešterska* — *22*:296-7

Picos de Europa: see Liébana

*Polled Lincoln Red (Lincolnshire, England); b.; herd started by E. Pentecost *c.* 1940 from red Aberdeen-Angus × Lincoln Red Shorthorn; syn. *Lincolnshire Beef Poll* — *19*:43, *21*:321, 412

Polled Sussex (S. Africa); m.; in formation (1950 on) from red Aberdeen-Angus × Sussex — *22*:27, 85

Promurska (Slovenia): see Murboden

Red-and-White Friesian (Great Britain); society formed 1951 to register red var. of British Friesian; 6-7 herds; also small section in Dutch Friesian HB (FRS) — *19*:544

Red Khandari (N. Hyderabad, India); tr.d.; z.; sim. to Deoni but red; syn. *Lakhalbunda* (Berar)

Red Pied Dutch: see Meuse-Rhine-Yssel

Red Sadovo (Plovdiv, Bulgaria); d.; orig. (1883 on) from Angeln × Simmental and Friesian, at Sadovo Agric. School; Bulg. *Červeno sadovsko*; Ger. *Rotes Sadowo* — *21*:137

reem, rimu (Palestine): see urus
retinta (Spain): see Andalusian

*Santander (Spain); m.d.tr.; North Spanish type; former vars: [Campóo] (valley), [Liébana], [Pas], Tudanco (mountain); syn. *Montaña*; Campóo, Liébana and Pas absorbed by Friesian and Swiss Brown — *12*:67, *18*:373
Santander Hairless (Colombia); local; zebu blood; sim. to Horned Sinú but more milk; Sp. *Chino Santandereano* — *21*:124, 335-6
Save (Mozambique): see Nguni
Savoy (Italy): see Tarentaise; It. *Savoiarda*
Senepol: see Nelthropp. [*Sene*gal × Red *Poll*]
Sidon (S. Lebanon); d.; smaller var. of Lebanese
**SLB*: see Swedish Friesian
**Sofia Brown* (S.W. Bulgaria); d.m.; orig. (1951) from native graded to Montafon (first imported 1894); Bulg. *Sofiïsko kafjavo*; Ger. *Sofioter Braunvieh*
*Spanish Mountain (mountains of S. and C. Spain); tr.m.; long horns; black or dark brown; Sp. *Serraña* or *agrupaciones serrañas* — *17*:9, *21*:29-30
Spanish Pied (Extremadura and W. Andalusia, Spain); used for herding fighting bulls; Sp. *Berrendas españolas*; vars: black pied and blue roan (Sp. *Berrenda en negro y cardena*), red pied and roan (Sp. *Berrenda en colorado y salinera*); orig. of Mertola (1) (Portugal) — *17*:9
Spotted cattle of the lower Guadiana: see Mertola (1); Port. *bovino malhado do baixo Guadiana*
**Spotted Mountain*: see Austrian Simmental, German Simmental
Spreča (N.E. Bosnia, Yygoslavia); yellow-grey; orig. from Yugoslavian Steppe with Buša blood; Serbo-Croat, *Sprečka*; syn. *Tuzla* — *8*:3-4, *22*:199
*Stara Planina (W. Bulgaria); tr.; dark grey; smaller mountain var. of Bulgarian Grey with more *brachyceros* blood; Bulg. *Staroplaninsko kašorogo* (= *shorthorned*)
Suksun (Molotov, U.S.S.R.); d.; red; orig. from Red Danish and Latvian Red × local; Russ. *Suksunskiĭ* — *24*:233-4
**Swazi*: see Nguni
Swedish Lowland: see Swedish Friesian

Tamankaduwa (Ceylon); local z. var.; usu. white or light; ? orig. from imported Indian breeds
**Tanjore*: see Umblachery
**Taurache*: see Tourache
*Taylor (Patna, Bihar, India); d.; orig. from 4 Shorthorn and Channel Island bulls, imported by Commissioner Taylor in 1856, × local zebu; red, grey or black; no hump; about 2500; not *Taypor* — *20*:321

Taypor: see Taylor
Therkuthi madu: see Umblachery
Tirolese Grey: see Oberinntal; Ger. *Tiroler Grauvieh*
toro de lidia (Spain): see Lidia
*[Tourache] (Franche Comté, E. France); tr.d.; sim. to Fémeline; usu. dark red and white; absorbed by Montbéliard in late 19th and early 20th c.; syn. *Taurache, Comtois*. [? etym.] — *3*:253, *24*:207
Tur: see Shuwa
*[Tux-Zillertal] (Tyrol, Austria); syn. *Tirolese*; vars: Tux (black), Zillertal (red); extinct 1954 — *2*:16-17, *4*:278
Tuzla: see Spreča

*Umblachery (Tanjore, Madras, India); z; local var. sim. to Kangayam but smaller; grey with white points and back line; calves red or brown with white markings; steers dehorned and ears clipped; syn. *Jathi madu, Mottai madu, Tanjore, Therkuthi madu, Southern* — *13*:191
urang (Nepal); yak × Nepalese cow, F_1; ♀ fertile, ♂ infertile; syn. pamjommu (Assam); reciprocal cross is zo, *q.v.* — *22*:312

Varzi: see Tortona; It. *Varzese*
*Vestland Fjord (Norway); usu. dun, also red or black; usu. hd; orig. (1866-95) from black hd (Hordaland) and grey pd (Møre and Ramsdal); Nor. *Vestlandsk fjordfe*; syn. *Fjord, West Coast Fjord, Westland Horned*; combined with Lyngdal & Vestland Red Polled (1947) to form South & West Norwegian — *13*:121-2, *17*:133
**Vestland Red Polled (Norway); Nor. *Vestlandsk raukolle*; syn. *West Coast Red Polled, Westland Polled*; combined with Lyngdal, and then with Vestland Fjord (1947) to form South & West Norwegian
Vychegda-Vym (Komi, U.S.S.R.); d.; black (28 %), black pied (20 %), red or red pied (47 %); pd; Russ. *Vyčegodsko-vymskiĭ* — *21*:133

Wadai-Dinka: see Nilotic
Welsh runt (English Midlands) = Welsh Black bullock
White Guadiana: see White Caceres; Sp. *Blanca guadianesa*
White Horned (Great Britain): see Wild White
White Polled (Great Britain): see British White
"White Sanga" (Gold Coast); White Fulani × Gold Coast Shorthorn — *19*:439
*Wild White (Great Britain); white with black points; 5 herds (1953): Chillingham (Northumberland) - red ears, purebreeding; Cadzow (Lanarkshire) - heterozygous for colour; Vaynol (N. Wales) - Highland blood; Woburn — *8*:227, *17*:224, *18*:155, *22*:268

SUPPLEMENT

1957

FOREWORD TO SUPPLEMENT

Since the first edition of the *World Dictionary of Breeds, Types and Varieties of Livestock* was published in 1951, there have been several changes in breed status and in breed names and some new breeds have been described in the literature.

This Supplement, therefore, includes both new entries and replacements for entries in the first edition of the dictionary which need correction. The new entries include new breeds, breeds whose description has been noted during the last five years, and additional synonyms for previously noted breeds. The last are entered in the form of cross references from the Supplement to the body of the first edition.

Entries have been amended when the official name for the breed has been changed, when the status of a breed has changed (e.g. become extinct), when it has been thought necessary to change the English rendering of a foreign breed name, when new information has enabled the entry to be expanded from a bare name to a line or more of print, or, in a few cases, when it was necessary to correct an error. The amended entries are marked with an asterisk (*).

If correct usage and nomenclature are required the Supplement should be used in conjunction with the first edition.

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The following additional abbreviations have been used:

A.E.S. = Agricultural Experiment Station
Agric. = Agricultural
BS = breed society
HB = herd, flock or stud book
recog. = recognised (as a breed)

August 1956

I. L. MASON

ASS

	A.B.A. vol. and page
Abkhasian; var. of Georgian; Russ. *Abhazskiĭ*	*20*:11
Georgian (U.S.S.R); Caucasian type; vars: Kakhetian, Meskhet-Javakhet, and Abkhasian	*20*:11
Kakhetian; var. of Georgian; Russ. *Kakhetinskiĭ*	*20*:11
Libyan; smaller (usu. bay with pale belly), and larger (dark bay or gray; saddle type) vars.	*21*:17
Meskhet-Javakhet; var. of Georgian; Russ. *Meshet-Džavahetskiĭ*; not *Meskhet-Dzhavakhet*	*20*:11
Quaramani (Yemen, Arabia); small local type	*19*:418
Subyani (Yemen, Arabia); Sudanese orig.	*19*:418

BUFFALO

**Badavan*: see Bhadawari	
*Bhadawari (Agra, Uttar Pradesh, India); d.; sim. to Murrah; copper-coloured with pale legs: syn. *Etawah*; not *Badavan, Badavari*	*10*:16, *20*:407
*carabao (Philippines): see Philippine carabao. [= buffalo]	
Etawah: see Bhadawari	
Gir: see Jafrabadi	
Hungarian (S.W. Hungary); tr.; very few	
*Mannar; larger, reddish var. of Ceylon buffalo; not *Manaar, Manar*	
Menufi; var. of Egyptian; not *Menoufi*	*19*:441
*Philippine carabao (Philippines); tr.m.; ash grey with white lines below neck. [*carabao* = buffalo; ♀ = *caraballa*]	*7*:302
*Romanian (S. Romania); d.; muzzle may be white; short horns	*8*:3
*Tamankaduwa; d.; largest var. of Ceylon buffalo; not *Tamamkaduwa*	

CATTLE

Ala-Tau (E. Kazakhstan, U.S.S.R.); d.m.; brown; orig. (1929 on) at stud farm "Alamedin" from Swiss Brown and Kostroma, × Kirgiz (also some Friesian, Simmental and Aulie-Ata blood); Russ. *Alatauskiĭ*	*19*:440, *20*:24
***Alentejo** (S. of Tagus, Portugal); m.tr.; fawn; Port. *Alentejana*; syn. *Trastagana*; var: Algarve; dark var: Mertola (Port. *Mertolenga*), nearly extinct; not *Alemtejo*	*13*:134, *15*:220 *23*:368-9
Algarve (S. Coast of Portugal); var. of Alentejo; Port. *Algarvia*	

**Allgäu*: see German Brown; Ger. *Allgäuer*; not *Algau*

**Alur*: see Nioka

***Andalusian** (Guadalquivir Valley, S. Spain); m.tr.; sim. to Extremadura; dark mahogany red; lyre horns; Sp. *Retinta* (= *dark*) *Andaluza de la Cuenca del Guadalquivir*; ? orig. of Criollo (S. America) and Texas Longhorn (U.S.A.); see also Black Andalusian, Blond Andalusian — *17*:9, *10*-11, *21*:29-30

*Arab (Syria, Israel and Jordan); tr.; *brachyceros* type; brown to black, or pied; 30 % pd; small; syn. *Anatolian* (Hama), *Bedouin*, *Chaissi*, *Kleiti* (Homs), *Oksh* — *7*:205, *21*:337

Argentine Criollo (N. Argentina); m.tr.; vars: large *Chaqueño* (Chaco), medium *serrano* (S.E. Salta) and small *fronterizo* (5 N. Provinces) — *19*:439-40

***Arouca** (N. Beira, Portugal); d.m.tr.; light to dark chestnut; orig. from Barrosã, Miranda, Minho *et al.*; Port. *Arouquesa*; not *Aroucesa* — *15*:220, *18*:154 *23*:368

*Alsatian Simmental (France); d.m.tr.; orig. from Swiss Simmental; HB fused with Eastern Spotted in 1945 — *1*:235

Austrian Brown; d.m.tr.; Brown Mountain type; Ger. *Braunvieh*; former vars: Montafon (Vorarlberg) and Styrian Brown

Austrian Simmental; d.m.tr.; orig. from Simmental and German Simmental ˚× local; Ger. *Fleckvieh* (= *Spotted cattle*); former vars: Danube, East Styrian, Innviertel, and Unterinntal (Tyrol)

Bamenda (British Cameroons); var. of Adamava

Baria (W. Madagascar); feral; small hump; ? orig. from Zebu × humpless — *23*:17-18

*Barundi (Kivu, Belgian Congo); var. of Ruanda-Urundi; syn. *Kivu* — *21*:28-9

Bashi (Kivu, Belgian Congo); d.m.; Sanga type — *19*:172, *21*:28-9, [*22*:296

Bassanese: see Burlina

Basuto (Basutoland, S. Africa); Sanga type; black — *22*:259

Beira (E. Portugal); tr.m.(d.); var. of Miranda; Port. *Beiroa* — *20*:131

*[Bergscheck] (Styria, Austria); Simmental blood; syn. *Enns*, *Kampeten*, *Mountain Spotted*; not *Spotted Mountain*; extinct *c.* 1950 (absorbed by Austrian Simmental) — *3*:254, *4*:278

Berrenda: see Spanish Pied

Black Andalusian (Córdoba and Seville, S. Spain); tr.m.; sim. to Castille-Leon type; black or black-brown; Sp. *Negra Andaluza* or *Negra de las Campiñas Andaluzas* — *17*:9, *21*:29-30

Black Pied East Belgian: see Hervé

Black Welsh: see Welsh Black

Blond Andalusian (Huelva, S.W. Spain); tr.m.d.; yellow to corn-coloured; Sp. *Rubia andaluza*; syn. *Blond Extremadura* (*Extremeña rubia*); being replaced by Andalusian; *cf.* Alentejo (Portugal) — *21*:29-30

**Blue* (Belgium): see Central and Upper Belgian
**Blue* (France): see Bleue du Nord
**Blukwa*: see Nioka. [from Chief Blukwa]
Boccarda: see Burlina
Bodadi: see Red Bororo
Boenca (Port. Guinea): see N'Dama
Bohinj Pinzgau (Slovenia, Yugoslavia); d.; local graded to Pinzgau; Serbo-Croat, *Bohinjskij Pinzgavac*
Bonsmara (Transvaal, S. Africa); m.; red; orig. *c.* 1938-55 at Mara Cattle Research Station by J. C. Bonsma from Africander ($^5/_8$) × Shorthorn ($^3/_8$) — *24*:337
Bory; pd var. of Madagascar Zebu — *20*:208
Bragança (N.E. Portugal); tr.m.; var. of Miranda — *20*:131
Bra-Swiss (Texas, U.S.A.); m.; Brahman × Brown Swiss, cross — *20*:129
bree (Assam): see yak (♀)
British-Canadian Holstein-Friesian (England); d.; association formed in 1946 to register Friesian cattle imported from Canada 1944-48 and not accepted for British Friesian herdbook — *22*:295
***British White** (Great Britain); d.m.; domestic breed derived from Wild White; Swedish Mountain blood (1949); white with black points; BS 1918; pd only (since 1946); syn. *Park* (1918-46), *White Polled*; 12 herds (1953) — *18*:155, *22*:268
**Bukedi*: see Eastern Province Zebu
***Bulgarian Grey**; tr.(m.d.); Grey Steppe type with some *brachyceros* blood; Bulg. *Sivo mestno* (= *grey native*); vars. inc. Iskur (larger, lowland) and Stara Planina (smaller, mountain;) syn. *Bulgarian Steppe*; orig. of Plevna — *5*:381, *6*:1, *21*:14
Bunyoro: see Bahima

*[Campóo] (W. Santander, Spain); larger, valley var. of Santander; Sp. *Campurriana*; absorbed by Swiss Brown and Friesian (1940's) — *12*:67, *17*:10-11
*Carreño (Asturias, N. Spain); tr.d.m.; larger, lowland var. of Asturian; red to mahogany; Sp. *Asturiana de los valles*; being crossed with Brown Swiss and Friesian; not *Acreno*; *c.* 6000 only — *17*:10-11, *19*:43
*Caso (Asturias, N. Spain); tr.d.m.; smaller, mountain var. of Asturian; light to dark red; Sp. *Asturiana de las montañas* or *Casina*; *c.* 11,000 only — *17*:10-11, *19*:43
CASTILLE-LEON (Duero Valley, Spain); tr.m.; sim. to Spanish Mountain; black; inc. Avila, Salamanca, Zamora; Sp. *Castellano-Leonese*; syn. Avila type — *21*:29-30
***Central and Upper Belgian** (Belgium); d.m.; white, blue-pied, or blue; orig. from Shorthorn and Dutch Friesian × local; Fr. *Race de la Moyenne et de la Haute Belgique*, Fl. *Ras van Midden- en Hoog-België*; syn. *Belgian Blue, Belgian White and Blue Pied, Blue, Mid-Belgian, White* — *2*:109-10, *4*:173, *8*:363-4, *16*:111-2

Meuse and Schelde; *cf.* Bleue du Nord (France); HB 1919

Charford (N. Arizona, U.S.A.); m.; in formation (1952) at Ash Fork Ranch; $^1/_2$ Charollais, $^3/_8$ Hereford, $^1/_8$ Brahman — *21*:237

Charnequeiro (Portugal); see Mertola (3). [*charneca* = heath]

Chillingham (Northumberland, England); herd of pure Wild White cattle, closed since 1240; red ears, black points; BS 1939 — *8*:225, *17*:224

Chino-Santandereano (Colombia): see Santander Hairless

Colorada (Spain): see Extremadura

**Comtois*: see Tourache

Creole (Mauritius): see Mauritius Creole

Cutchi (Cutch, N. Bombay, India); local type with Tharparkar and Gir influence; syn. *Kachhi* — *22*:199

**Dahomey* (Mayumbe, Belgian Congo); see Lagoon

Dales Shorthorn: see Northern Dairy Shorthorn

Danish Jersey (esp. W. Fünen); var. of Jersey from imports from Sweden (1896) and Jersey (1902-9)

Dark Andalusian: see Andalusian

dhee (Assam): see yak (♀)

dimjo (Nepal: see zo

***Døle** (Norway); d.; vars: Gundbrandsdal (dark brown), Østerdal (black); breed recog. 1880, HB 1909, restarted 1922; combined with Blacksided Trondheim & Nordland 1956. [= valley] — *2*:90, 186, *6*:89, *13*:121-2, *18*:39

Dutch Red-and-White, Dutch Red Pied: see Meuse-Rhine-Yssel

Eastern Black Pied (Belgium): see Hervé

*Eastern Province Zebu (Uganda); d.m.; East African Shorthorned Zebu type; *syn. Bukedi, Lango, Nkedi, Teso* — *17*:87, *20*:322, *21*:36-7

***Eastern Red Pied** (E. France); d.m.tr.; orig. (1946) by union of Abondance, Eastern Spotted, and Montbéliard which remain as vars. with separate HBs; Fr. *Pie rouge de l'Est*; syn. *French Simmental, Pied Eastern* — *21*:31

Eastland (Norway): see Red Polled Østland

Etchtaler: see Grey Adige

*[Fémeline] (Sâone Valley, E. France); tr.d.; sim. to Tourache; fawn or red; crossed with Shorthorn at end of 19th c. and graded to Simmental in early 20th c. to form part of Eastern Spotted; not *Feme*. [? etym.] — *3*:253, *24*:207

FFPN: see French Friesian

Fiemme: see Grey Val di Fiemme

fighting bull (Spain): see Lidia

French Friesian (N. France); d.; var. of Friesian; first — *22*:107, 295

imported in early 18th c.; Fr. *Française frisonne pie noire* (*FFPN*) or *Hollandaise pie-noire*; HB 1922

Fula (Port. Guinea): see N'Gabou

Gabú (Port. Guinea): see N'Gabou

Gacko (S.E. Hercegovina, Yugoslavia); grey; orig. from Tirolese Grey × Buša; Serbo-Croat, *Gatačko* — *20*:304

Galega (Portugal): see Minho

***Galician Blond** (N.W. Spain); tr.m.d.; North Spanish type; cream to golden red; Sp. *Rubia gallega*; vars: Improved (with Simmental and Swiss Brown blood), Castro Caldelas (dark), Limia & Verin (? with Spanish Mountain blood); *cf.* Minho (Portugal); HB 1933 — *12*:67, *13*:188-9, *17*:9-10, *19*:438-9

ganado bravo (Spain): see Lidia

Gangatiri (Uttar Pradesh, India): see Shahabadi

***German Brown** (Bavaria-Württemberg, Germany); d.m. (tr.); Brown Mountain type; Ger. *Deutsches Braunvieh*; syn. *Allgäu*; *cf.* Murnau-Werdenfels — *2*:199, *5*:265, *13*:15

*German Shorthorn (Schleswig, Germany); m.d.; orig. from Shorthorn × Red Pied Lowland; Ger. *Land Shorthorn* — *3*:25, *8*:117

***German Simmental** (S. Germany); d.m.tr.; orig. from Bernese and Simmental × local; Ger. *Höhenfleckvieh* (= *Spotted Mountain cattle*); syn. *Alpenfleckvieh, Fleckvieh, Grosses Fleckvieh, Red Spotted Highland, Scheckvieh* (obs.); orig. vars: Messkirch (Baden), Miesbach (Bavaria), Württemberg Spotted; not *Brindled Highland*; *cf.* Austrian Simmental — *1*:95, *2*:200, *10*:23, 150, 216, *11*:89, *14*:212

**Gessiene*: see Gex

*Gex (N.E. Ain, E. France); orig. from Swiss Simmental; HB fused with Eastern Spotted (1945); Fr. *Gessienne*

glang (Assam); = cattle (dwarf); greyish black; ♀ is glangmu; *cf.* Tibetan and Indian Hill — *15*:150

**Glatz Mountain*: see Kłodzko

Grati (E. Java, Indonesia); d.; orig. from Friesian × native Javanese and Madurese, with some Ayrshire and Jersey blood; Indonesian, *Sapi perahan Grati* (= *Grati dairy cows*) — *21*:228, *24*:15

[Grey Val di Fiemme] (N.E. Italy); d.m.tr.; It. *Grigia di Val di Fiemme*; graded up to Brown Alpine in 20th c.; grades are 'sorcino' — *22*:294-5

Guadiana Spotted (Portugal): see Mertola (1)

Guadiana White (Spain): see White Caceres; Sp. *Blanca guadianese*

***Hungarian Grey**; tr.m.d.; Grey Steppe type; Hung. *Magyar szürke* or *Magyar alföldi*; syn. *Grey Hungarian Steppe, White Hungarian*; *cf.* Transylvanian — *1*:245, *3*:19, *10*:215, *18*:259

**Hungarian Steppe*: see Hungarian Grey

Hutsul (Bucovina, W. Ukraine, U.S.S.R.); orig. from Moldavian × Carpathian Brown — *24*:17

Induberaba, Indú-Brasil: see Indo-Brazilian

*Irish Moiled (N. Ireland); d.m.; usu. red or roan; syn. *Irish Polled*; not *Maoile, Maol, Maoline, Moile, Moyle*. [moiled = pd]

*Iskur (N. Bulgaria); tr.(d.m.); larger, lowland var. (or syn.) of Bulgarian Grey; Bulg. *Iskărsko*; syn. *Vit*; not *Iskar, Isker* — *5*:181, *6*:1, *21*:142

Israeli Friesian (Israel); d.; orig. from local (Damascus, Lebanese and Arab) graded to Friesian imported from Netherlands (since 1922), Canada (1946), and U.S.A. (till 1955)

Jamaica Brahman; m.; orig. from Ongole, Hissar and Mysore zebus; BS and HB 1949 — *19*:352, *24*:77

***Jamaica Hope**; d.; orig. (1920-52) from Jersey ($^3/_4$—$^7/_8$) × zebu (chiefly 1 Sahiwal ♂) at Hope Stock Farm; syn. *Montgomery-Jersey, Jersey-Zebu*; not *Jamaica Jerbu*; BS and HB 1953 — *20*:319, *22*:28

*Japanese; m.tr.(d.); native orig. with some European blood; vars: Japanese Black, Japanese Brown, Japanese Polled (black; Aberdeen-Angus blood); Jap. *Wagyu* (= Japanese cattle) — *16*:92, *21*:346

*Jarmelo (Beira, Portugal); d.; local var. of Miranda; Port. *Jarmelista*; disappearing — *15*:220

Jathi madu: see Umblachery

je (Assam): see zo

jommu (Assam); ♀ of zo, *q.v.*

joppa (Assam): see zo

Kachhi (Baluchistan, Pakistan): see Bhagnari

Kachhi (Cutch, India): see Cutchi

Karacabey-Montafon (N.W. Anatolia, Turkey); orig. from Montafon × Anatolian Black since 1925 — *20*:303

Kemerovo (Siberia); d.m.; orig. (1930-53) from Siberian crossed first with Simmental, Kholmogor or Ukrainian Red, and then with East Friesian or its grades — *21*:237

**Kenia* (Ceylon): see Kinniya

Khandari: see Red Khandari

*Kinniya (Mahaweli Ganga, Ceylon); z.; local var. sim. to Mysore type; grey; not *Kenia*

**Kivu*: see Barundi

*Kłodzko (Silesia, Poland); tr.d.; red or brown with white head, back stripe, and belly; orig. from Sudeten; Ger. *Glatzer Gebirgsrind* (= *Glatz Mountain*); syn. *Silesian White-back*; disappearing — *2*:207-8, *23*:128

Kula (NW.. Bulgaria); d.m.tr.; orig. (1951) from Simmental (first imported 1894) × Iskur; Bulg. *Kulsko*

Landim (Mozambique): see Nguni

**Land Shorthorn* (Germany): see German Shorthorn

***Lidia** (Spain); bulls for fighting (*toro de lidia* or *ganado bravo*) are bred in Andalusia, Extremadura, New Castille (Jarama), and Salamanca; usu. black or dark brown — *17*:9, *21*:29-30

*[Liébana] (W. Santander, Spain); smaller, highland var. of Santander; Sp. *Lebaniego*; syn. *Picos de Europa*; absorbed by Swiss Brown (1940's) — *18*:373

Limburg (Nassau, Germany): see Lahn var. of Yellow Hill

Limia & Verin (S. Galicia, Spain); var. of Galician Blond with Spanish Mountain blood; Sp. *Limiana y Verinesa*

**Lincolnshire Beef Poll*: see Polled Lincoln Red

Lower Guadiana Spotted: see Mertola (1)

Magyar: see Hungarian

**Målselv* (Norway); red; usu. pd; orig. from Dutch (to 1860) and Ayrshire (1860-1900) × local; combined with Red Trondheim in 1951

Manjaca (Port. Guinea); local var. of West African Dwarf Shorthorn — *23*:16-17

**Mariahof* (Austria); sim. to Carinthian Blond; white; syn. *Steierisches Blondvieh* (*Styrian Blond*); extinct in Austria (remnant merged in Carinthian Blond); in Slovenia (Yugoslavia) called *Plava* (= *blond*) — *3*:254

Marinhoa (N.W. Coast of Portugal); tr.m.; var. of Miranda

Maronesa (Terra Quente, N.E. Portugal); m.tr.; orig. from Barrosã × Miranda

Mauritius Creole (Indian Ocean); d.; usu. white, white with coloured flecks, brown, or brown and white; pd; ? Fr. orig. — *21*:134

Mayumbe (Belgian Congo) = Lagoon cattle imported from Dahomey

Mertola (S. Portugal); Port. *Mertolenga*: — *23*:368-9

1. in S.; tr.; red pied; orig. from Spanish Pied; syn. *Spotted cattle of the lower Guadiana* (Port. *Malhada do baixo Guadiana*)
2. dark var. of Alentejo; nearly extinct
3. S. of Tagus; Alentejo × Lidia; syn. *Charnequeiro*

Mid-Belgian: see Central and Upper Belgian

**Mölltal* (Venetia, Italy): see Pinzgau; formerly used for var. of Pinzgau in N.E. Udine as distinct from Pinzgau and Pusteria in N.E. Bolzano; not *Mölthal*

Mottai madu: see Umblachery

***Murnau-Werdenfels** (Weilheim-Garmisch-Landsberg, Bavaria, Germany); d.m.tr.; local breed sim. to German Brown but smaller and more red-yellow in colour; Ger. *Murnau-Werdenfelser*

Nari: see Bhagnari

"N'Dama Sanga" (Gold Coast); N'Dama × Zebu × Gold Coast Shorthorn — *19*:439

*Nelthropp (Leeward Isles, West Indies); d.m.; red; pd; orig. (1918-49) from Red Poll × smaller var. of Senegal N'Dama imported in 1860 to Nelthropp herd, St. Croix; to Antigua 1945 and called Nelthropp; syn. *Senepol* (U.S. Virgin Isles); not *Nelthrop* — *20*:399, *22*:386

N'Gabou (Port. Guinea); white with black points; ? orig. from N'Dama with Senegal Fulani blood; syn. *Fula, Gabú*; cf. Djakoré (Senegal) — *23*:16-17

***Nguni** (Zululand and Swaziland, S. Africa, and Mozambique S. of R. Save); d.tr.; Sanga type; often colour-sided (Nkone); syn. *Save, Swazi, Zulu*; not *Ngune* — *5*:12, *15*:236, *18*:155, *20*:131, 317, *21*:135-6

*Nioka (W. of L. Albert, Belgian Congo); orig. from Bahima × Lugwaret; syn. *Alur, Blukwa* — *21*:16, 28, 30

North Manchurian Dairy (Manchuria); d.tr.; usu. red pied; orig. from Simmental from Russia × local Mongolian

**Oksh* (Syria): see Arab

pamjommu (Assam); yak × glang, F_1; syn. *urang* (Nepal); reciprocal cross is zo, *q.v.* — *15*:150

Pantelleria (Italy); d.; mixed colours; Brown Alpine and Simmental blood — *24*:131

Pechora (N. European U.S.S.R.); d.; orig. 16th to 20th c.; from Zyryanka cattle of Komi and from Mezen; improved by Kholmogor since 1930; Russ. *Pečorskiĭ* — *19*:438

Pešter (Montenegro, Yugoslavia); local, heavier var. of Buša; Serbo-Croat, *Pešterska* — *22*:296-7

Picos de Europa: see Liébana

*Polled Lincoln Red (Lincolnshire, England); b.; herd started by E. Pentecost *c.* 1940 from red Aberdeen-Angus × Lincoln Red Shorthorn; syn. *Lincolnshire Beef Poll* — *19*:43, *21*:321, 412

Polled Sussex (S. Africa); m.; in formation (1950 on) from red Aberdeen-Angus × Sussex — *22*:27, 85

Promurska (Slovenia): see Murboden

Red-and-White Friesian (Great Britain); society formed 1951 to register red var. of British Friesian; 6-7 herds; also small section in Dutch Friesian HB (FRS) — *19*:544

Red Khandari (N. Hyderabad, India); tr.d.; z.; sim. to Deoni but red; syn. *Lakhalbunda* (Berar)

Red Pied Dutch: see Meuse-Rhine-Yssel

Red Sadovo (Plovdiv, Bulgaria); d.; orig. (1883 on) from Angeln × Simmental and Friesian, at Sadovo Agric. School; Bulg. *Červeno sadovsko*; Ger. *Rotes Sadowo* — *21*:137

reem, rimu (Palestine): see urus
retinta (Spain): see Andalusian

*Santander (Spain); m.d.tr.; North Spanish type; former vars: [Campóo] (valley), [Liébana], [Pas], Tudanco (mountain); syn. *Montaña*; Campóo, Liébana and Pas absorbed by Friesian and Swiss Brown — *12*:67, *18*:373
Santander Hairless (Colombia); local; zebu blood; sim. to Horned Sinú but more milk; Sp. *Chino Santandereano* — *21*:124, 335-6
Save (Mozambique): see Nguni
Savoy (Italy): see Tarentaise; It. *Savoiarda*
Senepol: see Nelthropp. [*Sene*gal × Red *Poll*]
Sidon (S. Lebanese); d.; smaller var. of Lebanese
**SLB*: see Swedish Friesian
**Sofia Brown* (S.W. Bulgaria); d.m.; orig. (1951) from native graded to Montafon (first imported 1894); Bulg. *Sofiisko kafjavo*; Ger. *Sofioter Braunvieh*
*Spanish Mountain (mountains of S. and C. Spain); tr.m.; long horns; black or dark brown; Sp. *Serraña* or *agrupaciones serrañas* — *17*:9, *21*:29-30
Spanish Pied (Extremadura and W. Andalusia, Spain); used for herding fighting bulls; Sp. *Berrendas españolas*; vars: black pied and blue roan (Sp. *Berrenda en negro y cardena*), red pied and roan (Sp. *Berrenda en colorado y salinera*); orig. of Mertola (1) (Portugal) — *17*:9
Spotted cattle of the lower Guadiana: see Mertola (1); Port. *bovino malhado do baixo Guadiana*
**Spotted Mountain*: see Austrian Simmental, German Simmental
Spreča (N.E. Bosnia, Yygoslavia); yellow-grey; orig. from Yugoslavian Steppe with Buša blood; Serbo-Croat, *Sprečka*; syn. *Tuzla* — *8*:3-4, *22*:199
*Stara Planina (W. Bulgaria); tr.; dark grey; smaller mountain var. of Bulgarian Grey with more *brachyceros* blood; Bulg. *Staroplaninsko kašorogo* (= *shorthorned*)
Suksun (Molotov, U.S.S.R.); d.; red; orig. from Red Danish and Latvian Red × local; Russ. *Suksunskii* — *24*:233-4
**Swazi*: see Nguni
Swedish Lowland: see Swedish Friesian

Tamankaduwa (Ceylon); local z. var.; usu. white or light; ? orig. from imported Indian breeds
**Tanjore*: see Umblachery
**Taurache*: see Tourache
*Taylor (Patna, Bihar, India); d.; orig. from 4 Shorthorn and Channel Island bulls, imported by Commissioner Taylor in 1856, × local zebu; red, grey or black; no hump; about 2500: not *Taypor* — *20*:321

Taypor: see Taylor
Therkuthi madu: see Umblachery
Tirolese Grey: see Oberinntal; Ger. *Tiroler Grauvieh*
toro de lidia (Spain): see Lidia
*[Tourache] (Franche Comté, E. France); tr.d.; sim. to Fémeline; usu. dark red and white; absorbed by Montbéliard in late 19th and early 20th c.; syn. *Taurache, Comtois*. [? etym.] — *3*:253, *24*:207
Tur: see Shuwa
*[Tux-Zillertal] (Tyrol, Austria); syn. *Tirolese*; vars: Tux (black), Zillertal (red); extinct 1954 — *2*:16-17, *4*:278
Tuzla: see Spreča

*Umblachery (Tanjore, Madras, India); z; local var. sim. to Kangayam but smaller; grey with white points and back line; calves red or brown with white markings; steers dehorned and ears clipped; syn. *Jathi madu, Mottai madu, Tanjore, Therkuthi madu, Southern* — *13*:191
urang (Nepal); yak × Nepalese cow, F_1; ♀ fertile, ♂ infertile; syn. pamjommu (Assam); reciprocal cross is zo, *q.v.* — *22*:312

Varzi: see Tortona; It. *Varzese*
*Vestland Fjord (Norway); usu. dun, also red or black; usu. hd; orig. (1866-95) from black hd (Hordaland) and grey pd (Møre and Ramsdal); Nor. *Vestlandsk fjordfe*; syn. *Fjord, West Coast Fjord, Westland Horned*; combined with Lyngdal & Vestland Red Polled (1947) to form South & West Norwegian — *13*:121-2, *17*:133
*Vestland Red Polled (Norway); Nor. *Vestlandsk raukolle*; syn. *West Coast Red Polled, Westland Polled*; combined with Lyngdal, and then with Vestland Fjord (1947) to form South & West Norwegian
Vychegda-Vym (Komi, U.S.S.R.); d.; black (28 %), black pied (20 %), red or red pied (47 %); pd; Russ. *Vyčegodsko-vymskiĭ* — *21*:133

Wadai-Dinka: see Nilotic
Welsh runt (English Midlands) = Welsh Black bullock
White Guadiana: see White Caceres; Sp. *Blanca guadianesa*
White Horned (Great Britain): see Wild White
White Polled (Great Britain): see British White
"White Sanga" (Gold Coast); White Fulani × Gold Coast Shorthorn — *19*:439
*Wild White (Great Britain); white with black points; 5 herds (1953): Chillingham (Northumberland) - red ears, purebreeding; Cadzow (Lanarkshire) - heterozygous for colour; Vaynol (N. Wales) - Highland blood; Woburn — *8*:227, *17*:224, *18*:155, *22*:268

(from Chartley) - Longhorn blood; Dynevor (S. Wales) - tame, long horns; syn. *Park, White Forest, White Horned*; orig. of British White

Wodabe (Cameroons); intermediates between White Fulani and Red Bororo — *22*:199

Yugoslavian Simmental (N. Yugoslavia); var. of Simmental; Serbo-Croat, *Domaće šareno goveče* (= *local pied cattle*) or *Domaći simentalac*

Zanzibar Zebu; East African Shorthorned Zebu type

*zo (Tibet); Tibetan bull × yak, F_1; Chin. *pien niu*, Russ. *Hainyk* or *Hanik*; syn. *dzo, dzoz, je* or *joppa* (Assam), *dimjo* (Nepal); ♀ is zomo (Tibet), syn. *jommu* (Assam); reciprocal cross also zo (Tibet) or *pien niu* (China) but *urang* (Nepal) or *pamjommu* (Assam); backross to yak ♂ is *galiba* (China), *ah gohr* (Tibet) or *ago* (Russ.) — *5*:137-8, 264, *14*:224, *15*:150, *22*:312

**Zulu*: see Nguni

GOAT

Abgal (Somalia); var. of Modugh — *21*:164

*Akyab (Jaffna, Ceylon); d.; local dwarf short-legged var.; often cream or fawn; usu. hd; ? Burmese origin; not *Akyat*

Alentejo (Portugal); var of Charnequeiro; often black-backed; Port. *Alentejana*; ? orig. of Moxotó (Brazil); not *Alemtejo* — *22*:53

Andalusian Mountain (Sierra Morena, S. Spain); m.; white; Roman nose; Sp. *Serrana andaluza*; syn. *Córdoba*

Arabian (Somalia); d. — *22*:283

Bagot (Staffordshire, England); feral; *cf. Valais Blackneck*; ? orig. from Swiss imports in 14th c. [= name of family] — *23*:293

Barrosã (Portugal); var. of Charnequeiro — *22*:53

*Bashkir (N.W. Bashkiria, U.S.S.R.); d.m.; var. of North Russian; syn. *Cis-Ural Bashkir* — *15*:70

**Bashkir* (Trans-Ural): see Orenburg

Benadir (Somalia); vars. Bimal (d.; white), Gherra (d.m.; brown-and-white), and Tunni (m.; black-and-white); syn. *Deguen* (= *long ears*) — *21*:164, *22*:283

Bimal (Somalia); var. of Benadir; d.; white — *21*:164

Calabrian (Italy); fawn or brown; It. *Calabrese*

Castille Mountain (Iberic Mts., Spain); m.; white; long horns; Sp. *Serrana de Castilla y Levante*; syn. *Celtiberico*

Celtiberico: see Castille Mountain

Charnequeiro (Portugal); d.; vars: Alentejo, Barrosã, Ribatejo. [*charneco* = uncultivated area] *22*:53

Córdoba: see Andalusian Mountain; Sp. *Cordobese*

Corsican; d. *24*:119

Cutch-cross (Madras, India); d.; var. of Malabar; usu. brown with some black or red spots, also black or white; long hair and long lop ears; Roman nose; ? orig. from Gujarati × Arab; syn *Cutchi* *24*:167

*Danish Landrace (Denmark); d.; white, grey, brown or black; orig. from Saanen and Harz × local *14*:156

Deghier: see Modugh

Deguen: see Benadir

Dutch Toggenburg (Drenthe, Netherlands); d.; Du. *Nederlands Toggenburger*; orig. from Toggenburg × local

*__Dutch White__ (Netherlands, except Drenthe); d.; pd; orig. from Saanen × local; syn. *Dutch White Polled, Improved Dutch, Netherlands White* *14*:196-7

Etna Silver (Sicily, Italy); d.; It. *Capra argentata dell'Etna* (= *silvered goat of Mount Etna*) *21*:61

Finnish Landrace (Finland); d.; usu. white, also grey or pied; hd or pd, long or short-haired; Finn. *Suomalainen vuohi*

Gherra (Somalia); var. of Benadir; d.m.; brown-and-white *21*:164

*__Gujarati__ (N. Gujarat, Saurashtra, and Cutch, India); d.m. fl.; long black hair, white lop ears; corkscrew horns; Roman nose; syn. (or local vars.): *Cutchi* (*Katchi* or *Kutchi*), *Kathiawari*, *Marwari*, *North Gujarat* or *Mehsana*, *Zalawadi* *12*:145, *17*:144-5

*Irish (Ireland); grey or black; long-haired; almost extinct

Katjang (Java, Indonesia); black and white; small, erect ears *24*:46

Khasi: see Assam Hill

Kouri (Sind, Pakistan)

Libyan; m.d.; black *21*:17

Lohri (Sind, Pakistan)

Lori (S. & C. Persia); d.; black or brown

Meseta (Castille, León and Extremadura, Spain); m.d.; yellow and grey; Sp. *Raza de las Mesetas*

Modugh (N. Somalia); white; vars. Abgal (smaller) and Ogaden (larger); syn. *Deghier* (= *short ears*) *21*:164, *22*:283

Nadjdi (Persia); d.fl.; white, cream or spotted; Arabic orig.

Netherlands White: see Dutch White

Ogaden (Somalia); var. of Modugh *21*:164
*Orenburg (S.E. Bashkiria and Chkalov, U.S.S.R.); fl.d.; usu. black; var. of Kirgiz; syn. *Chkalov*, *Trans-Ural Bashkir* *11*:33-4, *15*:70, *21*:164-5

Philippine; m.; white, black, pied or other colour; small, long-haired
Portuguese Mountain (N. Portugal); Port. *Serrana* *22*:53

Repartidó (N.E. Brazil); syn. *Surrâo* *23*:18
Ribatejo (Portugal); var. of Charnequeiro; Port. *Ribatejana* *22*:53
Roman (Italy); fl.m.; usu. white; long hair; It. *Romana*

Serrana: see Portuguese Mountain, Spanish Mountain
Sicilian (Italy); fl.m.
Silvered goat of Mount Etna: see Etna Silver
Somali: see Arabian, Benadir, Modugh *21*:164, *22*:283
Spanish Alpine (Cantabrian Mts., Spain); d.; prick ears; prisca horns; pied; Sp. *Alpina española*
Spanish Mountain: see Andalusian Mountain and Castille Mountain; Sp. *Serrana*
Surrâo: see Repartidó

Tunni (Somalia); m.; var. of Benadir; black-and-white *21*:164
Tellicherry (Madras, India); d.; var. of Malabar; usu. black or white; short hair and ears *24*:167

Yamnapari: see Jamna Pari

HORSE

Altér (Portugal); local var. of Andalusian
***Anglo-Norman** (Normandy, France); l.; orig. in 20th c. from Norman Coach Horse with more Thoroughbred blood; Fr. *Anglo-Normand*; syn. *Norman*; orig. of Charentais, Charolais, Vendée *3*:237
Ardennes (France); see French Ardennes
Ariège: see Mérens
Asturian Pony (N. Spain): see Galician pony
*Augeron (Auge, Normandy, France); h.; grey; local HB (1913) for Percheron (orig. with Norman blood) *3*:238
Austrian "Warm-blood"; l.; based on Oldenburg, English Halfbred and Nonius; Ger. *Oesterreichisches Warmblut* *20*:311
Azerbaijan (U.S.S.R.); l.-py; grey; improved by saddle breeds (1927-29, and 1940's); Russ. *Azerbaidžanskiĭ (kazakskiĭ)*; orig. of Deli-Boz *20*:212, 310

*BALKAN PONY; inc. Bosnian Pony, Krk Island Pony and Macedonian Pony (Yugoslavia), Albanian, Greek Native, Bulgarian (Mountain)

Baltic Ardennes (Baltic States, U.S.S.R.); h.; orig. from Ardennes × draft breeds and local; syn. *Latvian Ardennes* — *24*:9

Barra Pony (Hebrides, Scotland); nearly extinct, replaced by Highland Pony

Barthes Pony: see Landes; Fr. *Barthais*; disappearing

**Basque* (Spain): see Basque-Navarre Pony; Sp. *Vasco*

***Basque-Navarre Pony** (N. Spain); Sp. *Jaca Vasca-Navarra*; syn. *de la Barranca, Basque, Navarre*; orig. (with Breton) of Burguete

***Belgian**; h.; Fr. *Cheval de gros trait belge*; obs. syn. (heavy type): *Brabançon* (esp. U.S.S.R.); lighter mountain var: Ardennes; orig. of Rhenish (Germany), Trait du Nord (France) and Soviet Draft; BS 1885, HB 1890 — *5*:8, *12*:65

*Berry (C. France); h.; Fr. *Berrichon*; derivative of Percheron; HB 1923

Bético-lusitano: see Portuguese

Bhirum Pony (N. Nigeria); dwarf; *cf.* Kirdi; syn. *Pagan*; not *Birom*

Birom: see Bhirum

Black Forest (Germany); chestnut with light mane; orig. from Rhenish; Ger. *Schwarzwälder Kaltblut*; syn. *Sankt Märgener Fuchse* — *22*:288

Black Sea (Krasnodar-Rostov area, U.S.S.R.); l.; orig. from Nogai × saddle in 18th c., × mountain, Thoroughbred, Don, Karabakh, etc. in 19th and 20th c.; Russ. *Černomorskiĭ* — *22*:99-100

**Boer*: see Cape

Bornu (N.E. Nigeria); var. of West African Dongola

*Bourbonnais (Allier, C. France); h.; derivative of Percheron; HB 1923

Bovenlander (Netherlands): see Oldenburg. [= upland]

**Brabançon*: see Belgian (excl. Ardennes var.); syn. *Brabant*

***Burguete** (Navarre, Spain); l.tr.; usu. black or bay; orig. in late 19th c. from Basque-Navarre Pony graded to Breton — *17*:9, *21*:230

**Cantabrian Pony*: see North Spanish Pony; Sp. *Cantabrico*

Chumysh (N.E. Altai, U.S.S.R.); l.tr.; orig. from Mongolian-Siberian improved by Russian breeds (1770-1850), and by trotters and draft breeds (1850-1917); Russ. *Čumyšskiĭ* — *22*:100-1

Comtois (Doubs, E. France); h.-l.tr.; local breed sim. to Jura (Switzerland) improved by Ardennes; usu. bay; syn. *Maiche*. [from Franche Comté]

[Cushendal] (N. Ireland); py — *21*:126

Cutchi: see Kathiawari

[Devon Pack Horse] (England)]; py — *21*:126

Dutch Coach: see Gelderland and Groningen

Estonian Draft (Rakvere, Estonia, U.S.S.R.); h.; orig. from Ardennes (also Clydesdale and Shire) imported 1862-1935 × Estonian pony; Russ. *Èstonskiĭ tjaželovoz* — *24*:125

Flores: see Timor

French Ardennes (N.E. France); h.; sim. to Trait du Nord and Auxois; contains blood of Belgian Ardennes; Fr. *Ardennais*; HB 1908-14, 1923-

**Furioso, Furioso-Northstar*: see Mezőhegyes Halfbred

Giawf (Yemen, Arabia) — *19*:418

[Goonhilly] (Cornwall, England); py — *21*:126

Hainan Island (China); py; South-East Asia pony type — *23*:122

Hungarian Draft (W. Hungary); h.; orig. from Noric (late 19th c.), Percheron, and Ardennes, × Hungarian; Hung. *Magyar hidegvérű* (= *cold blood*); former vars: Mur Island, Pinkafeld — *23*:251

Hungarian Halfbred; inc. Gidran, Kisbér, and Mezőhegyes Halfbred; used for improvement of Hungarian — *23*:251

**Japanese Native*; py; smaller island type (Tokara Pony) and larger mainland type (Kiso, Misaki, Nanbu and Hokkaido); few — *4*:400, *13*:127, *16*:91, *23*:122

**Karachaev* (North Caucasus, U.S.S.R.); l.; mountain var. of Kabarda; not *Karachayevsk* — *9*:294-5, *11*:82

**Kathi*: see Kathiawari

***Kathiawari** (Saurashtra, India); l.; turned-in ears; syn. *Cutchi, Kathi, Kutchi* — *6*:92, *11*:13, 139, *22*:195

**Kirgiz* (Kirgizia, U.S.S.R.); py; Mongolian type; Russ. *Kirgizskiĭ*; syn. *Kirgiz Mountain*; orig. of Novokirgiz; not Kirghiz. [Kirgiz was formerly used as syn. or var. of Kazakh]

**Kisbér Halfbred* (Hungary); English Halfbred from Kisbér stud which uses Thoroughbred ♂♂; not *Kis-Ber* — *3*:245, *5*:386, *8*:12, *21*:229

Kiso (C. Honshu); var. of Japanese Native — *23*:122

**Kobczyk*: see Podlaski

Latgale Trotter (Latvia, U.S.S.R.); orig. from Orlov and American Trotter × local; ? var. of Baltic Trotter; Russ. *Latgaljskiĭ rysak* — *24*:9

Latvian Ardennes: see Baltic Ardennes

Latvian Coach (Latvia, U.S.S.R.); l.tr.; orig. (1952) from native Northern type improved by various breeds at Riga State Stud (1893 on) and by Oldenburg, Groningen — *20*:212-3, *24*:9

and Hanover (1921-39); Russ. *Latviĭskiĭ uprjažnyĭ*; syn. *Latvian Carriage, Latvian Draft*

Loire (C. France); h.; local Percheron HB (1933)

[Long Mynd] (Shropshire, England); py — *21*:126

Łowicz (Poland); h.; local improved by Belgian — *19*:424

Lusitanian: see Portuguese; Port. *Lusitano*

Luso-galiziano: see Portuguese Pony

Maiche: see Comtois

*Maine (N.W. France); h.; local HB (1907) for Percheron in Maine; syn. *Mayenne* — *3*:238

[Manx] (Isle of Man); py — *21*:126

Megrel: see Mingrelian

Mérens Pony (Ariège, S. France); black; Fr. *Race Ariégoise de Mérens*; about 100

*Mezőhegyes Halfbred (Hungary, also in Romania); l.tr.; strain of English Halfbred; orig. from Thoroughbred stallions 'Furioso' (bought 1841) and 'North Star' (bought 1852); Hung. *Mezőhegyesi félvér*; syn. *Furioso-Northstar* — *5*:386, *8*:13, 334, *12*:124-5

Minusinsk (S. Krasnoyarsk, U.S.S.R.); l. — *22*:99-100

Misaki (Toi Peninsula, S. Kyushu, Japan); py; var. of Japanese Native — *22*:100, *23*:132

*Miyako (Ryu-Kyu Is.); South-East Asia pony type — *23*:122

**Mulassière* (France): see Poitou

Mura (R. Mur, N. W. Yugoslavia); var. of Yugoslavian Draft; *cf.* Mur Island (Hungary)

*[Mur Island] (Yugoslavia-Hungary); h.; sim. to Pinkafeld; orig. var. of Hungarian Draft; Hung. *Muraköz*, Ger. *Murinsulaner*; *cf.* Mura (Yugoslavia) — *3*:245

*Nanbu (N.E. Honshiu); py; var. of Japanese Native — *4*:400

**National* (Portugal): see Portuguese

**Navarre*: see Basque-Navarre Pony; Sp. *Jaca Navarra*

New Kirgiz: see Novokirgiz

***Nonius** (S.E. Europe); l.tr.; brown, dark brown, or black; orig. from Anglo-Norman stallion 'Nonius Senior' born 1810 and used at Mezhegyes, Hungary, from 1816 on light mares; Hung. *Nóniusz*; var: Yugoslav Nonius — *3*:242, 244, *5*:122, *8*:13

Nordbag (Norway): see Fjord

***Noric** (Austria); h.; occ. tiger-spotted; Ger. *Noriker* or *Norisches Kaltblut*; syn. *Pinzgau*; Germany - pure Noric in S.E. Bavaria called *Pinzgau* (to 1914) or heavy Noric (1914-34) and var. in S.W. Bavaria with "Warm-blood" influence called *Oberland* (to 1914) or light Noric (1914-34); now combined and called *Oberland* (1934-45) or South German (*Süddeutsches Kaltblut*) *q.v.* [Roman Province of *Noricum* - Austria and S. Bavaria] — *4*:5-6, 156, *5*:385-6, *8*:11, 101-2, *10*:142

**Norman*: see Anglo-Norman; Fr. *Normand*; syn. *Normandy*

*NORTH SPANISH PONY; inc. Galician, Basque-Navarre, and Losa; syn. *Cantabrian Pony*

*_North Star_: see Mezőhegyes Halfbred

Novokirgiz (Kirgizia, U.S.S.R.); l.; orig. from Kirgiz improved in 19th and 20th c. (esp. since 1919) by Don and saddle breeds; 3 types according to size, and amount of Kirgiz blood; syn. *New Kirgiz* — *19*:423, *23*:21

*_Oberland_ (Germany): see South German (Noric orig.); Ger. *Oberländer Kaltblut*; till 1934 used for light var. of Noric only

Onezhskiĭ (Karelian-Finnish S.S.R., U.S.S.R.); py; var. of Karelian

Orlov-American Trotter: see Russian Trotter; Russ. *Orlovo-Amerikanskiĭ Rysak*

*Orlov-Rostopchin (U.S.S.R.); l.; orig. in late 19th. c from Orlov Saddle Horse and Rostopchin; Russ. *Orlovo-Rostopčinskiĭ*; syn. *Russian Saddle Horse* — *9*:296-7, *11*:81-2, *14*:68-9

***Orlov Trotter** (U.S.S.R.); l.; orig. (1775-1845) by Count Orlov at Khrenov stud from Arab, Thoroughbred and Persian, with Danish Saddle, Dutch Draft, Mecklenburg, and Hackney blood; Russ. *Orlovskiĭ rysak*; syn. (*c.* 1920-49) *Russian Trotter*; not *Orloff* — *4*:401, *9*:203, 294, 297, 299, 300, *11*:11, *12*:180, *14*:201, *21*:208

Peninsular: see Portuguese

***Percheron** (Le Perche, Normandy, France); h.; usu. grey, white or black; derivatives (local HB's): Augeron, Berry, Bourbonnais, Loire, Maine, Nivernais, Saône-et-Loire; vars. in Great Britain, U.S.A., U.S.S.R., etc.; HB 1833 — *9*:202, *10*:80-1, *12*:64-5, *15*:157

*[Pinkafeld] (Austria-Hungary); h.; sim. to Mur Island; orig. var. of Hungarian Draft; Hung. *Pinkafő* — *3*:245

*_Pinzgau_: see Noric

Podlaski (Poland); h.; line of Belgian orig. from stallion 'Kobczyk'; syn. *Kobczyk* — *21*:229

***Poitou** (France); h.; Fr. *Poitevine mulassière* (= mule producer); ? orig. from Dutch; HB 1885 — *23*:360

***Portuguese** (S. Portugal); l.; syn. *Bético-lusitano, Lusitanian, National, Peninsular* — *11*:210

Portuguese Pony (N. Portugal); Port. *Luso-galiziano, garrano*; var: Mira Pony; *cf.* Galician Pony (Spain)

*Posavina (R. Sava, N.W. Yugoslavia); var. of Yugoslavian Draft (based originally on extinct py); Serbo-Croat, *Posavska*

Russ (= *Skogsruss*): see Gotland Pony

*_Russian Ardennes_: see Russian Draft

***Russian Draft** (U.S.S.R.); orig. (since mid 19th c.) from Ardennes × local; smaller than Ardennes; Russ. *Russkiĭ tjaželovoz*; syn. *Russian Ardennes* (till 1952) — *9*:201, *11*:146, *15*:157, *20*:310

**Russian Saddle Horse*: see Orlov-Rostopchin; Russ. *Russkiĭ (Krovnyĭ) verhovoĭ*

***Russian Trotter** (U.S.S.R.); l.; orig. (1890-1926) from Orlov and American Trotters; Russ. *Russkiĭ rysak*; syn. *Orlov-American Trotter, Russo-American Trotter* (*c.* 1920-49) — *9*:293, 294, 299, *11*:11, *14*:135, *24*:203

**Russian Trotter* (1920-49): see Orlov Trotter

**Russo-American Trotter* (1920-49): see Russian Trotter

**Saishu Island*: see Korean; not *Saishuh*

Saône-et-Loire (C. France); h.; local HB for Percheron and Ardennes (1927)

Skogsbagge, Skogshäst: see Gotland Pony

South German (S. Bavaria and Württemberg); h. to l.tr.; orig. from Noric with some "Warm-blood" infusion; Ger. *Süddeutsches Kaltblut*; syn. (1934-45) *Oberland* — *7*:210, *8*:11, 101-2

Soviet Draft (C. European U.S.S.R., esp. Mordov and Pochinok); h.; orig. from local mares graded to Brabançon since late 19th c.; basic, heavy and light types; Russ. *Sovietskiĭ tjaželovoz* — *9*:296, *15*:156-7, *21*:21-2

**Spanish*: see Andalusian, Castilian

*Spanish Ponies: see North Spanish Pony, Canary Island

Sulebawa (Nigeria); var. of West African Barb; ? orig. from French West Africa

Takara: see Tokara

[Tiree] (Scotland); py — *21*:126

Togara: see Tokara

Tokara Pony; small (island) var. of Japanese Native; usu. dark brown with darker mane and tail; imported from Kikai Island in Oshima group about 1900; only 43 in 1953; not *Takara, Togara* — *23*:132, *24*:124

***Voronezh Coach** (U.S.S.R.); h.-l.tr.; orig. in 20th c. from Clydesdale × heavy trotter; Russ. *Voronežskiĭ uprjažniĭ*; syn. *Voronezh Draft* — *9*:292, *14*:203, *15*:157

Western Kazakh (U.S.S.R.); l.; improved var. of Kazakh with saddle, Don and Budennyĭ blood, 1930 on; Russ. *Zapadnyĭ Kazakskiĭ* — *22*:288

Westphalian "Warm-blood" (Germany); l.; Ger. *Westfälisches Warmblut*; orig. from local graded to Hanover

White-Russian Coach (E. White Russia, U.S.S.R.); l.tr.; orig. from various draft and coach breeds × local; Russ. *Belorusskiĭ upražnyĭ*; syn. *White Russian Carriage* — *22*:99-100

Yugoslavian Draft (N.W. Yugoslavia); h.; usu. chestnut or brown; orig. from Belgian and Pinzgau (but lighter);

Serbo-Croat, *Domać Hladnokrvan* (= *local cold-blood*); vars. Mura (heavier) and Posavina (lighter)

Yugoslavian Nonius (N.E. Yugoslavia); medium var. of Nonius

PIG

Abruzzi (Italy); black; semi-lop ears; It. *Abruzzese*; rare

***Alentejo** (S. Portugal); Iberian type; sim. to Extremadura Red (Spain); red, golden or black; Port. *Alentejana*; syn. *Portuguese, Red Portuguese, Transtagana*; not *Alemtejo* — *11*:239, *15*:220-1, 261-2, *22*:229

Alföldi: see Ancient Alföldi

Améliorée de l'Est (Alsace-Lorraine, France): see German Improved Landrace. [= improved eastern]

American Landrace (U.S.A.); b.; orig. from Danish Landrace imported 1934 and 38 Norwegian Landrace ♂♂ imported 1954; BS 1950 — *24*:378

[Ancient Alföldi] (C. Hungary); ld; sim. to Mangalitsa and absorbed by it in early 19th c.

Andalusian Black: see Black Iberian

Andalusian Blond (W. Andalusia, Spain); Iberian type; whitish to golden; Sp. *Andaluza rubia* (*campiñesa*) — *22*:229

**Andalusian Red*: see Extremadura Red

Andalusian Spotted (Jabugo, Huelva, Spain); Iberian type; whitish with irregular black speckles, esp. on head and rump; ? orig. from Andalusian Blond × Black Iberian; Sp. *Andaluza manchada*; syn. *Jabugo Spotted* (Sp. *Manchada de Jabugo*)

*Apulian (Apulia and Lucania, Italy); white, often with black markings, esp. on face and rump; It. *Pugliese*; syn. *Apulo-Lucanian* (It. *Appulo-luccana*), *Mascherina* (= *masked*); vars: N.E. Lucania & Capitanata (Foggia), Murge, S.E. Lucania, Gargano (Apulia)

Asturian (N. Spain); m.; black; orig. from Celtic × Iberian; being crossed with Large White — *22*:229

Balearic: see Majorcan

Bălţăreţ; marsh var. of Romanian Native

***Basque** (France); m.ld; Iberian type, sim. to Limousin; black pied; Fr. *Pie noire du pays basque*; syn. *Béarn* — *24*:205-6

Basque-Navarre: see Vitoria

Bastianella (Faenza, Emilia, Italy); strain of inbred Large White (imported 1875) used for crossing with Romagna; sim. to San Lazzaro

*[Bavarian Landrace] (Germany); front end white, hind end red; Ger. *Halbrotes bayerisches Landschwein* — *2*:129

Baztán (Navarre, Spain); white or white with few blue spots; local Celtic cross

**Béarn*: see Basque; Fr. *Béarnaise*

Beltsville No. 1 (Maryland, U.S.A.); m.; black with white spots; moderate lop ears; inbred orig. (1934-51), 75 % Danish Landrace, 25 % Poland China; HB 1951 — *22*:55

Beltsville No. 2 (Maryland, U.S.A.); red with white underline, occ. black spots; short erect ears; inbred orig. (1940-51), 58 % Danish Large White, 32 % Duroc, 5 % Danish Landrace and 5 % Hampshire; HB 1952 — *22*:55

Bentheim Black Pied (Oldenburg, Germany); lop-ears; Ger. *Schwarz-Weisses Bentheimer*; syn. *Wettringer*

Bilsdale: see Yorkshire Blue-and-White

Black Andalusian: see Black Iberian

**Black Edelschwein*: see German Berkshire

[Black Essex] (England); var. of Small Black; orig. of Essex (U.S.A.); syn. *Old Essex*

Black Hairless (Extremadura and W. Andalusia, Spain); ld; var. of Black Iberian without bristles and with skin folds; slate black; Sp. *Negra lampiña*; orig. var: Guadiana (Sp. *Pelón guadianes* = *Bald Guadiana*) in Badajoz — *19*:295, *21*:62, *22*:229

***Black Iberian** (Extremadura and W. Andalusia, Spain); ld.m.; Iberian type sim. to Extremadura Red; syn. *Andalusian Black*, *Extremadura Black*; vars: Black Hairless (Sp. *Negra lampiña*) *q.v.* and Black Hairy (Sp. *Negra entrepelada*) — *19*:295, *21*:62, *22*:229

*Black Mangalitsa (Syrmia, Yugoslavia); ld; var. of Mangalitsa; black-brown with yellow belly; syn. *Lasasta* (= *weasel*), *swallow-bellied*, *Syrmian* (Serbo-Croat, *Sremica*) — *8*:42-3, *16*:137, *20*:53

*Black Slavonian (E. Slavonia, Yugoslavia); p.ld; black; semi-lop ears; orig. (by Count Pfeifer) from Berkshire and Poland China × Black Mangalitsa, 1860 on; syn. *Pfeifer*; not *Black Slavonic* — *6*:188

*[Black Suffolk] (England); var. of Small Black; *cf.* Black Essex

Black Umbrian: see Maremma

Borgo (Emilia, Italy); It. *Borghigiana*; syn. *Fidenza* — *21*:63

*[Bourdeaux] (Drôme, France); Celtic type; black; not *Bordeaux*

*[Bresse] (Ain, France); Iberian type; black pied; absorbed by Large White; Fr. *Bressane* or *Bressanne*

Brinati: see Fumati

British Landrace (Great Britain); name of society (founded 1952) for breeders of Swedish Landrace in Britain. ["British Landrace" ought to refer, by analogy with "Danish Landrace", etc., to native white lop-eared British breeds, *i.e.* Cumberland, National Long White Lop-eared, and Welsh]

[Bronze] (Germany); orig. (1925 on) from European wild boar × Bavarian Landrace and German Pasture, improved by Berkshire — *20*:158, 246

Bulgarian Improved White (Bulgaria); m.; orig. from native pig graded up by Large White (first imported early 20th c.) and German Yorkshire; Bulg. *Bălgarska bjala oblagorodena*, Ger. *Bulgarisches weisses veredeltes* — *24*:121

Bulgarian Native; prim.; nearly extinct - a few remain in Botevgrad area; see also East Balkan — *24*:121

Caldeira; strain of Alentejo selected at Oropesa (Spain)

Campanario; strain of Black Hairless Extremadura selected at Oropesa (Spain)

Campiñesa: see Andalusian Blond

Casco de mula: see Mulefoot

**Castagnona*: see Romagna

Celtic (Spain): see Galician

[Charollais] (France); black pied — *21*:280

Chato de Murcia: see Murcian

Chato de Vitoria: see Vitoria

Colorada (Spain): see Extremadura Red. [= red]

Corsican; white, fawn or black; small and prim.; Fr. *Corse* — *24*:119, 205-6

Danish Black Spotted; b.; often wattles; ? orig. from unimproved Landrace with blood of coloured English breeds; few

[Dauphiné] (S.E. France); black pied; Fr. *Dauphinois*; not *Dauphin* — *21*:280

Dermantsi Black Spotted (Lukovit, N. Bulgaria); ld; orig. from Berkshire (and Mangalitsa) × native; Bulg. *Dermanska černošarena*, Ger. *Schwarzbuntes Dermanzi* — *24*:121

Diani (Batangas, Philippines); black, sometimes spotted; orig. from Berkshire and Poland China × Philippine Native

Dnieper (Ukraine, U.S.S.R.); ld; black spotted; orig. from Mirgorod Spotted, Berkshire (1911), and Large White (1937-38), × local short-eared; Russ. *Dneprovskiĭ* — *18*:300, *20*:158

**Dutch Landrace* (E. Netherlands); b.; orig. from German Improved Landrace (imported since 1902) and Danish Landrace (imported 1929-33) × local; Du. *Nederlands (verédeld) Landvarken* (= *Netherlands improved Landpig*); syn. *Netherlands Landrace*; HB 1933 (dates from 1913-18) — *13*:1, *22*:229, *23*:166

**Dutch Large White*: see Dutch Yorkshire

**Dutch Yorkshire* (W. Netherlands); p.; orig. from German Yorkshire and Large White imported since *c.* 1870; Du. *Nederlands Groot-Yorkshire Varken*; syn. *Dutch Large White*, *Edelvarken*, *Netherlands Large White*; HB since 1913-18 — *13*:1, *23*:166

East Balkan (E. Bulgaria); prim.; usu. black; orig. from Asiatic × European wild pig; Bulg. *Istočnobalkanska*; syn. *Kamchiya* (Bulg. *Kamčiska*) — *24*:121

Ervideira; strain of Alentejo selected at Oropesa (Spain)

*__Essex__ (England); p.b.; orig. from Old English; saddleback, sim. to Wessex; syn. *Essex Half-black, Sheeted Essex, White-shouldered Essex*; BS 1918 — *12*:147

*Essex (Iowa, U.S.A.); p.b.; black; orig. from Black Essex

Estonian Lop-eared (Estonia, U.S.S.R.); b.; orig. from local crossed with Danish, Finnish and German Improved Landrace and Large White; Russ. *Éstonskiĭ vislouhiĭ* — *24*:378

**Extremadura Black*: see Black Iberian

*__Extremadura Red__ (Extremadura and Andalusia, Spain); m.; Iberian type, sim. to Alentejo (Portugal) and to Black Iberian; Sp. *Extremeña retinta* or *colorada*; syn. *Andalusian Red, Red Iberian*; orig. var: Olivenza (Badajoz) improved by Alentejo — *19*:295, *21*:62, *22*:229, *23*:167

Fidenza: see Borgo; It. *Fidentina*

__Finnish Landrace__ (Finland); native lop-eared; may have blue spots; orig. from short-eared East Finnish and lop-eared West Finnish with some Swedish Landrace blood in 1940's; Finn. *Suomalainen maatiaisrotu*, Swed. *Finsk lantras*; BS 1908

Friuli Black (Venetia, Italy); m.; nearly extinct (1951) by crossing with German Yorkshire (1908-40), Large White, *et al.*; since 1952 purebred being revived; It. *Friulana nera, Nera del Friuli*; syn. *San Daniele* — *19*:490

*Fumati (Emilia, Italy); Bastianella or San Lazzaro (inbred Large White) × Romagna, F_1; light copper; syn. *Brinati*. [=smoky] — *17*:146-7

Gargano (Italy); var. of Apulian

Garlasco (Lomellina, Pavia, Italy); grey with white head; nearly extinct — *21*:63

*__Gascony__ (Haute Garonne - Gers, France); m.ld; Iberian type; black; Fr. *Gasconne*; orig. (with Large White) of Miélan and Cazères — *24*:205-6

*German Berkshire (Germany); orig from German Landrace, graded to Berkshire; syn *Black Edelschwein* — *5*:288

*German Cornwall (Germany); var of Large Black

**German Edelschwein*: see German Yorkshire

*__German Improved Landrace__; b.p.; orig. from Large White or German Yorkshire × German Landrace; Ger. *Deutsches veredeltes Landschwein*; *syn. Améliorée de l'Est* (France), *German Long-eared, German White Lop-eared* (= *Deutsches weisses Schlappohrschwein*), *V.D.L.*; local vars: Hoya, Meissen — *2*:25, 225-6, *3*:274, 276, 398-9, *4*:54, 198-9, *8*:57, *11*:36, 239

*[German Landrace]: orig. of German Improved Landrace; Ger. *Deutsches Landschwein* — *2*:129

German Large White: see German Yorkshire

***German Yorkshire**; p.b.; orig. from German Landrace graded up by Large White imported 1880 on; Ger. *Deutsches weisses Edelschwein* (= *German white thoroughbred pig*); syn. *German Large White, German Short-eared, German White Prick-eared* (= *Deutsches weisses Stehohrschwein*), *White Edelschwein*; not *German Pedigree* — *3*:273, 274, 2,76 *4*:198-9, *10*:173

Grey Siena (Tuscany, Italy); p.ld; Large White × Siena Belted, 1st cross; white with grey spots — *20*:53

*Guadiana (Badajoz, Spain); orig. var. of Black Hairless; Sp. *Pélon guadianes* (= *Bald Guadiana*)

**Hamprace*: see Montana No. 1

Harbin White (Manchuria); orig. from Large White from Russia (1896) × local

Hormel (Minnesota, U.S.A.); miniature pig for medical research being selected at Hormel Institute, from cross of Guinea, Piny Woods, and Santa Catalina wild

Hungarian White (Hungary); p.-b.; orig. from Large White with some blood of Middle White, German Yorkshire and German Improved Landrace; Hung. *Féher hussertés*, Ger. *Ungarisches weisses Fleischschwein* (= *Hungarian white meat pig*); syn. *Hungarian Yorkshire*; HB 1923

Improved Eastern (Alsace-Lorraine, France): see German Improved Landrace; Fr. *Améliorée de l'Est*

Italian Belted: see Siena Belted

Jabugo, Jabugo Spotted: see Andalusian Spotted; Sp. *Manchada de Jabugo*

Kaman (Batangas, Philippines); red; orig. from Duroc × Philippine Native

Kamchiya: see East Balkan; Bulg. *Kamčiska*

Kamčija, Kamčik, Kamčiska: see East Balkan

Kemerovo (S. Siberia, U.S.S.R.); ld; orig. from Berkshire × local; Russ. *Kemerovskiĭ*

Krolovets: see Polesian Lard

Krškopolje Saddleback (Slovenia, Yugoslavia); black-and-white; lop ears; Serbo-Croat, *Krškopolska Černopasasta*; local type with blood of German Improved Landrace

Lacombe (Alberta, Canada); b.; lop ears; orig. from Danish Landrace (51 %), Chester White (25 %) and Berkshire (24 %) — *22*:75, *23*:399

Lampiña negra (Spain): see Black Hairless

LANDRACE: inc. native white lop-eared (Celtic) breeds of N.W. Europe (Danish Landrace, Finnish Landrace, Ger-

man Landrace, Norwegian Landrace, Swedish Landrace); and their derivatives (American Landrace, British Landrace, Dutch Landrace, German Improved Landrace, Swiss Improved Landrace. [= local, native, indigenous breed]

*Large White Ulster (N. Ireland); b.; lop ears; syn. *Ulster*; nearly extinct (only 1 herd in 1957); HB 1908-1933

Lasasta: see Black Mangalitsa

Levant type (Castellón to Almeria, E. Spain); local graded to Large White, Berkshire (= Murcian), and Vitoria; Sp. *Agrupación Levantina* — *22*:229

***Lincolnshire Curly Coat** (England); p.b.; lop ears; syn. *Baston, Lincoln, Lincoln Curly Coat, Lincoln Curly Coated White, Lincolnshire Curly-Coated*; BS 1907

*[Loches] (Touraine, France); *cf.* Montmorillon; absorbed by Large White

Madagascar; Iberian (p.; black) in hills, and Asiatic (ld; often black; Chinese orig.) in south — *19*:293, *20*:208

Manchada de Jabugo: see Andalusian Spotted

***Mangalitsa** (S.E. Europe); ld; curly hair; orig. from Šumadija (Serbia) in late 18th c., imported to Hungary in 1833 and used to improve local (Ancient Alföldi, Bakony, Szalonta, etc.); Serbo-Croat, *Mangulica* (♀) or *Mangulac*, Ger. *Mangaliza*, Hung. *Mangalica*, Rom. *Mangaliţa*; syn. *Hungarian Curly Coat*; vars: white (chief), black or swallow-bellied (Syrmia) and red (Romania); not *Mangalitza, Mangalizza, Mangolitsa, Mangulitza, Mongolitsa, Mongulitsa;* HB (Hungary) 1927. [Serbo-Croat, = easily fattened, from Rom. *mancare*, to eat] — *1*:25, *6*:188, *8*:58, 142-3, *16*:40

Marchesina: see Mascherina (Apulian)

*[Marseilles] (France); Iberian type with English blood (1850 on); absorbed by Large White; Fr. *Marseillaise*

Maryland No. 1 (Maryland, U.S.A.); p.; black with white spots; erect or semi-erect ears; inbred orig. (1941-51) at Blakeford Farms, Queenstown, Md, from Danish Landrace × Berkshire backcrossed first to Berkshire and then to Danish Landrace and then bred *inter se*; $^{5}/_{8}$ Danish Landrace, $^{3}/_{8}$ Berkshire; HB 1951 — *23*:294

Mascherina: see Apulian; not *Marchesina*. [= masked]

Middlesex: see Small White

***Minnesota No. 2** (U.S.A.); b.; black spotted; orig. (1941-8) from Canadian Large White (40 %) × Poland China (60 %); HB 1948 — *16*:44

Minnesota No. 3 (U.S.A.); orig. (1950's) from Gloucester Old Spots, Welsh and G.O.S.-Large White, × Minnesota C (Poland China inbred line) and San Pierre — *21*:279

Moldavian Black (former Bessarabia, U.S.S.R.); ld; orig. — *21*:279

(1948 on) from Berkshire × local black, F_1 bred *inter se*; Russ. *Černyĭ moldavskiĭ*

*__Montana No. 1__ (U.S.A.); p.; black; inbred orig. (1936-48) from Danish Landrace (55%) × Hampshire (45%) at Montana A.E.S., Miles City; syn. *Black Hamprace*; HB 1948 — *17*:429, *18*:184

*[Montmorillon] (Vienne, France); orig. in late 19th c. from Large White × Craon; Fr. *Montmorillonnais*; syn. *Poitou*; absorbed by Large White — *17*:260

Murcian (E. Spain); var. of Levant type; local graded to Berkshire; Sp. *Chato de Murcia* — *22*:229

Negra entrepelada (Spain): see Black Iberian

Negra lampiña (Spain): see Black Hairless. [*lampiño* = beardless]

Netherlands (Improved) Landrace: see Dutch Landrace

*__North Caucasus__ (N. Caucasus, U.S.S.R.); ld; black or spotted; orig. from local Kuban with 2 crosses of Large White (1929-38), 2 of Berkshire (1938-41) and 1 of White Short-eared (1946); Russ. *Severokavkazskiĭ*; syn. *Northern Caucasian, Novocherkassk* — *21*:166, *23*:294, *24*:47

**Novocherkassk*: see North Caucasus

Olivenza (Badajoz, Spain); orig. var. of Extremadura Red improved by Alentejo; Sp. *Oliventina*; syn. *Raya* — *11*:239

*Philippine Native; black or black with white belly; vars. inc. Ilocano, Jalajala; orig. of Berkjala, Diani, Kaman

Piégut (Bussière-Badil, Dordogne, France); local var. of Miélan since early 20th c.

__Piétrain__ (Brabant, Belgium); p.; dirty white with black spots, often red hairs; semi-lop ears; ? orig. (c. 1919-20) from local × Bayeux and Tamworth; recog. 1955

*__Poland China__ (Ohio, U.S.A.); ld; black with white points; orig. (1835-72) from Berkshire, Miami, etc.; orig. of Spotted Poland China; not *Poland-China*; HB 1878, united BS 1946. [a settler from Poland and" Big Chinas" - one of strains forming Miami] — *8*:57-58, *16*:40

Polesian Lard (N. Ukraine, U.S.S.R.); ld; Russ. *Polesskiĭ salnyĭ (kroloveckiĭ)*; syn. *Krolovets* — *19*:490

*Polish Lop-eared; b.; orig. of Puławy (with Berkshire) and Złotniki (with Large White); being improved by Swedish Landrace; syn. *Local long-eared, White lop-eared* — *3*:49

**Polish Native*: see Polish Lop-eared, Vilna Lard

**Portuguese*: see Alentejo, Bizara

Přeštice (Czechoslovakia); m.ld.; Czech, *Přeštická* — *24*:169

Prisheksninskiĭ (Vologda, U.S.S.R.); p.ld; local type of Large White; Russ. *Prišeksninskiĭ* — *23*:297

Puebla; strain of Black Hairless Extremadura selected at Oropesa (Spain)

Raya (Spain): see Olivenza. [= frontier (of Spain and Portugal)]

Red Andalusian: see Extremadura Red

Red Iberian: see Alentejo, Extremadura Red

Red Portuguese: see Alentejo

Reggio (Emilia): see Parma; It. *Reggiana*

Resava (Serbia, Yugoslavia); p.ld; black spotted; lop ears; ? orig. from Berkshire × Mangalitsa and Šumadija; Serbo-Croat, *Resavka* or *Resavska svinja*; syn. *Vezičevo*; *cf.* Morava — *23*:166-7

Retinta (Spain): see Extremadura Red. [= dark red]

Romagna (Emilia, Italy); p.; dark brown or copper coloured; It. *Mora* or *Mora romagnola*; syn. *Bologna*, *Castagnona* (= *chestnut*), *Moor*; former vars: Faenza, Forli, Rimini; F_1 by Bastianella or San Lazzaro (inbred Large White) = fumati (smoky) or brinati — *17*:146-7, 18:420

Roman: see Maremma

Rubia, Rubia campiñesa (Spain): see Andalusian Blond

Sakhalin White (U.S.S.R.); ld; orig. from Large White (imported 1932) × local; Russ. *Belyĭ sahalinskiĭ* — *19*:489

San Daniele: see Friuli Black; It. *Sandanielese*

San Lazzaro (Faenza, Italy); strain of inbred Large White (imported 1875) used for crossing with Romagna; sim. to Bastianella

San Pierre (U.S.A.); orig. from Chester White and Berkshire — *21*:279

Sardinian (Italy); local with Craon, Large White, Berkshire and Caserta blood; black, grey, fulvous, or pied; long bristles; It. *Sarda*

Serbian: see Šumadija

Sintrão: see Torrejano

Slutsk Black Spotted (W. White Russia); ld; orig. from imported × native (before 1919); Russ. *Černopestryĭ Sluckiĭ* — *20*:246-7

[Small Black] (England); vars: Black Essex and Black Suffolk; orig. of Suffolk-and-Essex var. of Large Black, and of Essex (U.S.A.); Neapolitan blood 1830; ? Chinese blood — *19*:81-2

Spotted Andalusian, Spotted Jabugo: see Andalusian Spotted

Stocli; mountain var. of Romanian Native

Strei (Hunedoara, Transylvania, Romania); orig. from Large Black and Mangalitsa × local; 11,000 (1955)

Swabian-Hall (Württemberg, Germany); black with white belt; var. of German Saddleback (E. Germany, since 1948); Ger. *Schwäbisch-Hällisches;* not *Swabian-Halle* — *2*:129, 9:129-30, *10*:110, 173

Swedish Landrace; b.; orig. from local graded to Danish Landrace imported chiefly 1914-15 and 1935-39; Swed. — *1*:253-5, *16*:138, *17*:147

Svensk Lantras or *Förädlad Lantras* (= *improved Landrace*); BS 1907, HB 1911

Swedish Large White; var. of Large White from British and German imports; Swed. *Stora vita Engelska* or *Svensk Yorkshire*

***Swiss Improved Landrace** (C. & E. Switzerland); b.; orig. from Large White (imported 1880-90) and German Improved Landrace imported early 20th c. × native; Ger. *Schweizerisches veredeltes Landschwein*, Fr. *Porc amelioré du pays* — *2*:406, *3*:398-9, *4*:55-6, *8*:389, *9*:227

Swiss Yorkshire (W. Switzerland); b.; orig. from Large and Middle Whites; Ger. *Schweizerisches Edelschwein*, Fr. *Grand porc blanc*; syn. *Swiss Large White*

**Syrmia*: see Black Mangalitsa; Croat, *Sremica*

Torrejano (C. Portugal); black and white; crossbred orig. from Bizaro; syn. *Sintrâo*; disappearing

Valtellina (N. Lombardy, Italy); m.; black; local, rare

Vezičevo (Serbia): see Resava; Serbo-Croat, *Vezičevka*

*Vilna Lard (Lithuania); ld; wild colour, prick-eared; syn. *Local short-eared*, *Polish native prick-eared*, *White prick-eared*; syn. *Lithuanian*; *cf.* Ukrainian — *6*:187, *8*:388

WEST FRENCH WHITE (N.W. France); p.; Celtic type; inc. Craon, Normandy, Flemish, also Boulonnais, Breton etc.; Fr. *Blanche de l'Ouest* — *24*:205-6

Wettringer: see Bentheim Black-Pied

Złotniki (Poznań, Poland); p.(ld); black spotted (50 %), white (25 %) or black, grey or striped; orig. (1949 on) by selection from Large White × Polish Lop-eared — *23*:294, *24*:167

Zungo Costeño (Colombia); ld; grey, hairless; Criollo type — *21*:124

SHEEP

**Ak-Karaman*: see White Karaman

Alai Fat-rumped (S. Kirgizia, U.S.S.R.); m.w.; *cf.* Fat-rumped Merino; black (50 %), brown (35 %), grey, or white; orig. (1934-53) from Kirgiz Fat-rumped, with Précoce blood (1938-40); Russ. *Alaiskiĭ kurdjučnyĭ*; 1000 at Alai Exp. Sta. — *21*:360

Altai Mountain (U.S.S.R.); mw.; orig. from Tsigai (1945) × [Merino × (Merino × local coarse-wooled) 1940]; Russ. *Gorno-altaiskiĭ* — *18*:285

American Rambouillet (U.S.A.); fw. m.; ♂ hd or pd;

♀ pd; orig. from Rambouillet imported 1840-60 from France and 1882-*c*.1900 from Germany; BS 1889

*Andalusian Merino (S. Spain); m.fw.; var. of Merino, larger and with coarser wool; Sp. *Andaluza* — *13*:32, *15*:179, *22*:47

Aurina: see Val Badia

***Australian Merino** (Australia and New Zealand); fw.; ♂ hd (or pd), ♀ pd (or hd); orig. 1797-1804 from Spanish Merino (Negretti strain) via England and Cape Colony, to give Camden Park Fine Merino (1797-*c*.1856), improved in turn by Saxony Merino, Rambouillet, American Rambouillet, American Merino (so-called 'Vermont'); Anglo-Merino and English Longwool blood (1840-70) in strong and medium strains; bred *inter se* since 1907; strains: Fine (Tasmanian, New South Wales, Victorian), Medium Peppin, Medium Non-Peppin and Strong (South Australian); HB 1923 — *5*:244-6, *7*:124, 393, *10*:72, 237-8, *12*:166, *24*:422-3

Australian Zenith: see Zenith

Badano (Terra Quente, Bragança, N.E. Portugal); cw.; dirty white; ♂ hd, ♀ pd; ? orig. from Spanish Merino × Bordaleiro — *24*:260-1

Badia: see Val Badia

**Bela Klementina*: see White Klementina

**Belogradchik*: see Replyan

Bergschaf (Austria): see Tyrol Mountain

*Birka (N. Yugoslavia); sw.; black, yellow or spotted head and legs; cross of Vojvodina Merino × Tsigai or other local sheep. [Hung., = sheep] — *14*:1-2

Black Belly: see West Indian

**Black-Brown Mountain* (Switzerland): see Swiss Black-Brown Mountain

**Brownheaded Mutton* (Switzerland): see Swiss Brownheaded Mutton

*[Bschlabser](Tyrol, Austria); local var. sim. to Steinschaf but woolly face

Bugti: see Bibrik

*Bulgarian Native; cw.d.m.; coloured in E., usu. white or white with coloured face in W.; ♂ hd, ♀ hd or pd, lt.; Zackel type; local prim. vars. inc. Kyustendil, Panagyurishte, Replyan, Rhodope; local improved vars. inc. Belaslatina and Sofia-Breznik; for improved breeds see Svishtov and Pleven Blackhead; for breeds improved by Tsigai see White South Bulgarian (Stara Zagora and Plovdiv-Purvomai), Shumen, Karnobat, White Klementina, and Rila Monastery; see also Karakachan — *1*:251, *10*:235, *24*:121

Buti (India): see Gujarati

**Buti* (Pakistan): see Thal

*[Camden Park]: early strain (1797-*c.*1856) of Australian Merino; orig. 1797-1804 from Spanish Merino (mainly Negretti) through *a*) Gordon Flock, Cape Colony, and *b*) Royal Flocks at Windsor and Kew, England, crossed with African and Asiatic cw. and hy breeds + some English lw. and sw., and backcrossed to Spanish Merino

*[Campine] (N. Belgium); Fr. *Campinoise*; extinct about 1950 — *9*:286, *12*:60

*Carinthian (Austria); cw.m.(d.); Lop-eared Alpine type; sim. to Tyrol Mountain (which has been displacing it since 1938) but poorer wool and smaller ears; yellowish-white, sometimes black ear tips and spectacles; pd; orig. from Padua (and Bergamo ?) × local (Steinschaf *et al.*) since early 18th c.; Ger. *Kärnter*; former (pre-1918) vars: Seeland (principal, also used as syn.), Petzen, Bleiburg, Spiegel (Tyrol), Kanaltal or Uggowitz; orig. (with Bergamo) of Solčava (Yugoslavia); not *German Mountain*; nearly extinct — *1*:251, *4*:278, *6*:296, *7*:123, *9*:116, *10*:102, *24*:153

Casalinga: see Campanian Barbary. [= local]

Casareccia: see Campanian Barbary

CFS: see Polish Improved Mountain

Chanothar (Udaipur, Rajasthan, and N. Gujarat, India); cw.d.; light brown face; long ears; sim. to Lohi; syn. *Charotar* (Gujarati), *Sonadi*; not *Charothar*, *Charothri*, *Chhanotar* — *20*:358, *22*:128-9

Chapper: see Chokla

Chevlin (New Zealand); m.lw.; orig. (1950's) by P. G. Buckleton from Lincoln × Cheviot — *22*:172

Chokla (Churu, Jhunjhunu and Sikar districts of Rajasthan, India); cw.; var. of Bikaneri, smaller and finer wool; dark patches on face; syn. *Shekhawati*, *Chapper* — *22*:128-9

Coastal Zackel (Yugoslavia): see Dalmatian; Serbo-Croat, *Primorska*

Coda chiatta: see Campanian Barbary. [= flat tail]

*Croatian Zackel (Yugoslavia): see Cres, Dalmatian, Istrian, Krk, and Lika vars. of Pramenka

Cuban Hairy (Cuba, West Indies); Sp. *Carnero de pelo de buey* (= *ox-haired*); *cf.* West Indian and Morada Nova (Brazil)

Cuorgné: see Savoy

Cutchi: see Gujarati

*Dagestan (U.S.S.R.); see Andi, Avar, Dargin, Gunib, Tabasaran; former syn. *Dagestan Mountain* (till 1950); see also Kumyk

Dagestan Mountain (U.S.S.R.); mw.; orig. (1926-50) from Württemberg Merino × Gunib, backcrossed once or twice to Württemberg and then mated *inter se*; Russ. *Dagestanskiĭ gornyĭ* — *15*:35, *20*:43-4, 351, *21*:54

*Dalmatian (Yugoslavia); var. of Pramenka; Croat, *Primorska* (= coastal); orig. (with Merino) of Pag and Dubrovnik (or may be used as syn.) — *7*:225, *11*:28, 30, *15*:255

*Danish Landrace (Jutland); orig. from Heath sheep (*Hedefår*) crossed with Merino in 18th c. and graded to Oxford Down *et al.* since 1900; Dan. *Dansk Landfår*; syn. *Klitfår* (= *dune sheep*)

Desi (Gujarat): see Gujarati

Dinka: see Nilotic (Sudan)

Donji Vakuf (Bosnia, Yugoslavia); var. of Pramenka; Serbo-Croat, *Donjevakufska* — *4*:420

*Dorsian (Pretoria, Transvaal, S. Africa); white; usu. pd; hy; orig. (1946 on) from Dorset Horn × Blackhead Persian ($\frac{1}{2}$ or $\frac{3}{4}$); *cf.* Dorper — *15*:213

Ennendale: see N-type Romney

*ENTREFINO (Spain); m.w.; pd; inc. Aragon, Castilian, Mancha, Segura, Talavera; ? orig. from Churro and Merino; syn. *Cruza* (= *crossbred*). [= medium fine] — *13*:32, *15*:179, *17*:9, *18*:283, *19*:75

*[Entre-Sambre-et-Meuse] (Belgium); m.cw.; extinct about 1950 — *9*:286, *12*:60

**Fat-rumped* (Middle East): see Somali

Galego (Terra Fria, Bragança, N.E. Portugal); cw.; white or black — *22*:326

***German Heath** (Luneberg Heath, N.W. Germany); cw.; st.; Ger. *Heidschnucke*; grey hd and white pd vars; lambs black — *3*:153, *5*:285-6

**German Improved Land*: see Württemberg Merino; Ger. *Deutsches Veredeltes Landschaf*

*German Karakul (Germany); native graded to Karakul (31/32); Ger. *Karakul Landschaf* — *7*:316, *10*:101

**German Mountain*: see Tyrol Mountain, not *Carinthian*

German Précoce: see Mutton Merino

**Glamorgan*: see South Wales Mountain

Gorki (U.S.S.R.); w.m.; brown face; pd; orig. (1936-48) from Hampshire Down × local coarse-wooled; Russ. *Gorjkovskiĭ*

Gorno Altai: see Altai Mountain

Granada (Spain); crossbred orig. from Merino, Segura and Mancha

[Groningen] (Netherlands); d.; Marsh type, sim. to Friesian; Du. *Groningse melkschaap* — *2*:218-9, 322

Gujarati (N. Gujarat, Saurashtra and Cutch, India); cw.d.; brown face; pd; sim. to Bikaneri; syn. *Buti* (= wattled), *Cutchi* or *Kutchi* (orig.), desi or deshi (Saurashtra and Gujarat), *Joria* (wool type), *Kathiawari* (from Saurashtra), *Pattanwadi* (from Patan); not *Gujerati*, *Gujrati* — *10*:165, *16*:36, *20*:356, *21*:55

Hallenjoo (Dera Ghazi Khan, Pakistan); larger var. of Khijloo; grey with black patches

Heath: see [Dutch Heath], German Heath, Polish Heath

***Hejazi** (W. Arabia); hy, pd; syn. *Khazi, Mecca*; not *Hadjazi, Hedjazi* — *23*:50-51

Improved Dartmoor: see Dartmoor

Indonesian: see Javanese, Donggala, Preanger — *19*:26, *23*:389

*Istrian (Yugoslavia); d.; var. of Pramenka; syn. *Karst* (Croat, *Krš*, It. *Carsolina*) — *16*:127

Ivrea: see Biella

Iwessi: see Awasi

Jaisalmeri (N. Jodhpur and Jaisalmer, Rajasthan, India); cw.; brown- and black-faced vars. — *22*:128-9

**Jhelum Valley*: see Kashmir Valley

**Karakul-Landschaf*: see German Karakul

Karavlašić: see Karakachan

**Karst*: see Istrian; Croat, *Krš*, It. *Carsolina*

*Kashmir Valley (S.W. Kashmir, India); cw.; usu. coloured; usu. pd; syn. *Valley*

**Kathiawari*: see Gujarati

Kazakh Finewool (Kazakhstan, U.S.S.R.); fw.; orig. (1934-45) from Précoce × Kazakh Fat-rumped; Russ. *Kazahskiĭ tonkorunnyĭ*

Kazakhstan Arkhar-Merino: see Arkhar-Merino

Keustendil: see Kyustendil

Khijloo (Dera Ghazi Khan, Pakistan); cw.m.; black marks on face and feet, or tan face and feet; sft.; var: Hallenjoo (larger, grey with black patches)

Kirmani (Turkey): see Karaman

**Kizil-Karaman*: see Red Karaman; not *Kisil-Karaman*. [*kizil* = red brown]

Klementina: see White Klementina

Kustendil: see Kyustendil

Kutchi: see Gujarati

Kyustendil (S.W. Bulgaria); local unimproved var. of Bulgarian Native; Bulg. *Kjustendilska*; not *Keustendil, Kustendil*

Lamkanni (Bahawalpur, Pakistan); smaller var. of Lohi with grey ears and no wattles; syn. *Lamochar*

**Land Karakul*: see German Karakul

Large Karakul (Ukraine, U.S.S.R.); m. fur; orig. at Askania Nova (1932 on) from Karakul × Hissar; Russ. *Krupnoplodnyĭ Karakulj* (= *Large Progeny Karakul*) — *24*:154

Lati (Salt Range, N.W. Punjab, Pakistan); m.cw.; ft.

Latvian Blackheaded (U.S.S.R.); sw.m.; orig. from Shropshire, Oxford Down and German Blackheaded Mutton (imported 1924-37) × local Northern Short-tailed, bred *inter se* since 1937; Latvian, *Latvijas tumšgalvas aitu*, Russ. *Latviĭskiĭ temnogolovyĭ*; syn. *Latvian Darkheaded* — *20*:43, *21*:57, *22*:219

*Letelle Merino (Orange Free State, S. Africa); m.fw.; orig. (1922-38) by J. P. van der Walt of Zastron from Rambouillet; named 1945, BS 1951; not *Lettelle*. [name of former Kaffir chieftain] — *17*:247, *20*:43

Lithuanian Blackheaded

Łowicz (Łodź, Poland); lw.m.; pd; orig. (1924-39) from Romney Marsh × local (White Świniarka with Merino blood); Pol. *Łowicka*; about 16,500 in 1954 — *23*:280, *24*:153-4

*Magra (Jaisalmer-Nagaur-Bikaner, Rajasthan, India); cw.; var. of Bikaneri; light brown round eyes; syn. *Mogra* (Jodhpur) — *22*:128-9

Malpura (Jaipur, Tonk, Sawai, and Madhopur districts of Rajasthan, India); cw.; lightly coloured face — *22*:128-9

Marri: see Bibrik

Marwari (Jodhpur and Jaipur, Rajasthan, India); cw.; black face — *22*:128-9

Merilin (Uruguay); mw.m.; orig. since 1910 by J. M. Elorga from Rambouillet (¾) and Lincoln (¼) (? + Polwarth). [*Meri*no-*Lin*coln] — *20*:301

**Merino-Landschaf* (Germany): see Württemberg Merino

**Middle East fat-rumped*: see Somali

Minnesota 100 (U.S.A.); mw.m.; orig. since 1937 at Minnesota A.E.S.; ½ Rambouillet, ¼ Border Leicester, ¼ Cheviot — *23*:155

Minnesota 102 (U.S.A.); w.m.; orig. since 1937 at Minnesota A.E.S. from Border Leicester × Shropshire with some Columbia and Targhee blood — *23*:155

Minnesota 103: see North Star Minnesota 103

**Mogra*: see Magra

Montenegro: see Piva and Zetska Žuja vars. of Pramenka

Multifoetal Karakul (Ukraine, U.S.S.R.); fur; black, also grey var.; orig. at Askania Nova (1935-52) from Karakul × (Karakul × Romanov), to increase twinning rate; Russ. *Mnogoplodnyĭ Karakulj* — *19*:357, *24*:154

Nali (Bikaner-Punjab, India); cw.; var. of Bikaneri; brown face; long ears — *22*:128-9

Nobile di Badia: see Val Badia

North Star Minnesota 103 (U.S.A.); mw.m.; orig. since 1889 by W. W. Bell of Beaver Creek; to Minnesota A.E.S., 1947 — *23*:155

Nostrale: see Piedmont. [= local]

Nostrana: see Campanian Barbary. [= local]

N-type Romney (New Zealand); cw.; ♂ hd, ♀ pd; orig. since — *24*:162, 163

1929 by selection of monogenic variants (*N* or *nr nr*) in New Zealand Romney Marsh by F. W. Dry of Massey Agric. College; syn. *Ennendale*

Nuer: see Nilotic (Sudan)

Nyasa — *22*:387

*[Oetztal] (Tyrol, Austria); local var. sim. to Schnalser — *7*:123

Old Wiltshire Horned: see Wiltshire Horned

Palas Merino (S. Romania); fw.m.; ♂ usu. hd, ♀ usu. pd; orig. 1920-50 at Palas Animal Breeding Station, Constanţa, from Negretti Merino grades of Tsigai, Ţurcana and Stogoş, graded to Rambouillet (1926-34) and to German Mutton Merino (1928-42) — *24*:155-6

Părvomaĭ: see Plovdiv-Purvomai

Pattanwadi: see Gujarati

Pechora (Komi, U.S.S.R.); lw.m.; orig. (1937-50) from Romney Marsh × local Russian Northern Short-tailed backcrossed twice to Romney Marsh and then bred *inter se*; Russ. *Pečorskiĭ polutonkorunnyĭ* (= *semi-fine-wooled*) — *20*:45, *21*:56

**Penistone*: see Whiteface Woodlands

**Plovdiv*: see Plovdiv-Purvomai

*Plovdiv-Purvomai (Maritsa Valley, Bulgaria); lw.d.m.; var. of White South Bulgarian; orig. from Tsigai × local Bulgarian with Merino blood; Bulg. *Plovdivsko-Părvomaĭska*; syn. *Plovdiv, Purvomai* — *10*:235, *21*:155, *24*:121

Podhale: see Polish Zackel; Pol. *Podhalánska*

Polish Hill, Polish Mountain: see Polish Zackel; Pol. *Polska górska*

Polish Improved Mountain (Carpathians, Poland); w.m.; pd; in formation (esp. Podhale and Silesia) from Polish Zackel improved by Transylvanian Zackel (imported 1911-13 and 1935-37) and East Friesian (imported 1925-27); syn. *CFS* (*Cakiel-Fryz-Siedmiogrodzka*) (= *Zackel-Friesian-Transylvanian*), *Improved Hill* — *21*:361

Poll Dorset (Australia); orig. from Dorset Horn and pd breed (? Ryeland); HB 1955 — *24*:156-7

Primorska (Yugoslavia): see Dalmatian. [=coastal]

Provence Merino: see Arles Merino

**Purvomai*: see Plovdiv-Purvomai

Pusteria, Tedesca di Pusteria, Val di Pusteria: see Val Badia

Race de l'Est à laine Mérinos (France): see Württemberg Merino

Rampur Bushier (Himachal Pradesh, Punjab, India); cw.; brown

**Rasa aragonesa, Raso*: see Aragon

Red Karaman (E. Turkey); cw.m.d.; Middle East Fat- — *4*:426, *8*:7-8

tailed type; *cf.* White Karaman; ♂ hd or pd, ♀ usu. pd; Turk. *Kizil-Karaman*; syn. *Dugli, Turkish Brown*; var. (or syn.) Mor-Karaman (dark brown)

Red Woolless (Brazil): see Morada Nova; Port. *Deslanada vermelha*

*Replyan (N.E. Bulgaria); local unimproved var. of Bulgarian Native; mottled head and feet; st.; Bulg. *Repljanska*, Ger. *Repljaner*; syn. *Belogradchik*

Rhodope (S. Bulgaria); local unimproved var. of Bulgarian Native; Bulg. *Rodopska* or *Rilo-Rodopska*

***Rila Monastery** (Bulgaria); d.w.; ♂hd, ♀ pd; local Bulgarian Native improved by Tsigai; Bulg. *Rilomonastirska* or from *Rilskii Monastir*, Ger. *Rilokloster*; syn. *Rila* — *1*:251, *22*:323, *24*:121

Salsk Finewool (Rostov, N. Caucasus, U.S.S.R.); fw.; orig. (1932-49) from Rambouillet × Novocaucasian Merino; Russ. *Saljskii tonkorunnyi*

Schnalser: see Tyrol Mountain

Sciara (Calabria, Italy); white var. of Calabrian

Scotch: see Scottish

Scotch Horn: see Scottish Blackface

Senales: see Val Senales

Sextner: see Val Badia

Shekhawati: see Chokla

Shilluk: see Nilotic (Sudan)

Silesian (Lower Silesia, Poland); d.cw.; pd; orig. (1932-54) from East Friesian × local; Pol. *Śląska* — *22*:326

Sofia-Breznik (S.W. Bulgaria); local improved var. of Bulgarian Native; inc. Sofia White, and Radomir

Sonadi: see Chanothar

***South Wales Mountain** (Glamorgan and Monmouth); larger var. of Welsh Mountain with tan face, bare belly, and kempy (often red) fleece; syn. *Glamorgan, Nelson* — *19*:345

[Spiegel] (S. Tirol, Austria); former var. of Carinthian; black spectacles (*Nasenspiegel*); orig. (with Bergamo) of Tyrol Mountain

Steiner (Steiner Alps, Austria); former var. of Carinthian

Sudanese Maned: see Nilotic

***Swiss Black-Brown Mountain** (W. Switzerland); sw.m.; pd; orig. (1938) by union of Frutigen, Jura, Roux-de-Bagnes, Saanen, and Simmental; Ger. *Schwarzbraunes Bergschaf* or *Gebirgsschaf*, Fr. *Brun noir du pays*, or *des alpes*, or *des montagnes* — *2*:406, *8*:375, *10*:33-4, *13*:145

***Swiss Brownheaded Mutton** (N. Switzerland); m.sw.; pd; orig. (1938) from Grabs + Oxford Down; Ger. *Braunköpfiges Fleischschaf*, Fr. *Mouton à viande à tête brune*; syn. *Improved Black-headed Mutton-Wool, Swiss Black-headed Mutton* — *2*:406, *8*:375, *10*:33-4, *13*:145, *17*:139

Talybont Welsh (S.E. Brecon, Wales); larger var. of Welsh Mountain with tan face and longer kemp-free fleece — *19*:345

Tauferer: see Val Badia

Tonguri: see Tenguri

Transylvanian Merino (Romania); tw.; orig. from Hungarian Combing Wool Merino

Turchessa: see Campanian Barbary

Tyrol Mountain (Austria); cw.m.; Lop-eared Alpine type, sim. to Carinthian but better wool, white face, and longer ears; orig. from Bergamo × Spiegel; Ger. *Tiroler Bergschaf*; syn. *Bergschaf, Carinthian Mountain* (Carinthia), *German Mountain* (Germany), *Tiroler, Schnalser* (pre 1918) — *6*:296, *7*:123, 314, *10*:102, *24*:153

Ultimo: see Val Senales

Valle Aurina: see Val Badia

Welsh Halfbred (Wales); Border Leicester × Welsh Mountain, F_1 — *24*:207

**West Swiss White*: see White Swiss Alpine

White Face Dartmoor (Devon, England); m.lw.; occ. speckled face; ♂ hd, ♀ pd; revived by HB 1950; orig. of (improved) Dartmoor — *20*:351

*Whiteface Woodlands (S. Pennines, England); cw.; Black-faced Mountain type, sim. to Lonk but white face; sim. to Limestone; syn. *Penistone, Woodlands Horned*; not *Woodland*; nearly extinct — *14*:150

***White Karaman** (C. Anatolia, Turkey); m.d.cw.; Middle East Fat-tailed type; *cf.* Red Karaman; ♂ hd, ♀ usu. pd; Turk. *Ak-Karaman*; syn. *Barazi, Garha,* or *Salamali* (Syria) — *4*:426, *5*:281, *7*:205, *14*:23, *15*:254

***White Klementina** (Bulgaria); w.d.; orig. from White Karnobat (1910) and Romanian Tsigai (1916) with some Merino blood, at State Farm Klementina (now G. Dimitrov) near Plovdiv; Bulg. *Bjala* (or *Bela*) *Klementinska* — *24*:121

White South Bulgarian; w.d.m.; local Bulgarian Native improved by Tsigai; vars. inc. Plovdiv-Purvomai, and Stara Zagora; Bulg. *Bjala južnobălgarska* — *24*:121

***White Swiss Alpine** (W. Switzerland); m.sw.; orig. (1936 on) from White Swiss Mountain with 50-75 % Ile-de-France blood; Fr. *Blanc des Alpes*, Ger. *Weisses Alpenschaf*; syn. *West Swiss White* (*Blanc de la Suisse Occidentale*), *Weisses Edelschaf, Blanc des Alpes amelioré* — *18*:284, *22*:128

White Woolled Mountain (Orange Free State, South Africa); m.cw.; ♂ usu. hd, ♀ usu. pd; orig. by A. D. Wentworth, Trompsburg, from Mutton Merino × (Dorset Horn × Blackhead Persian, 1942) — *17*:359

White Woolless (Brazil); white var. of Morada Nova; Port. *Deslanado branco* — *23*:18, 280

Wiltiper (Hartley-Gatooma, S. Rhodesia); m.; usu. black; hy; orig. (1946 on) from Wiltshire Horn × Blackhead Persian — *24*:368

Woolled Persian (S. Africa); m.cw.; usu. brown; pd, ft.; orig. from Arabi imported from Persia by Moss and Wardrop *c.* 1915

***Württemberg Merino** (S. Germany and Alsace-Lorraine, France); mw.m.; ♂ pd or hd, ♀ pd; orig. from Merino (imported late 18th and 19th c.) × Württemberg Land; since 1950 official Ger. name is *Merino Landschaf*, and Fr. is *Race de l'Est à laine mérinos*; syn. *German Improved Land, German White-headed Land, Improved German Farm, Improved White-headed Land, Württemberg, Württemberg Bastard, Württemberg Improved Land*; orig. of White Swiss Mountain and of Dagestan Mountain; not *Wurtemburg* — *7*:127, *9*:2-3, *10*:32, 165, *11*:233, *21*:359

Yalag: see Tenguri

Zenith (Victoria, Australia); mw.; pd; orig. (1947) by L. L. Bassett of Donald from Merino (predominant) and Lincoln; BS; HB 1955 — *24*:39

Zetska Žuja (Montenegro, Yugoslavia); var. of Pramenka; brownish yellow head and legs

*[Zillertal] (Tyrol, Austria); local var.

PART II

COUNTRIES AND REFERENCES

AUSTRALIA

SHEEP

123,072,000 in 1953 (March)

	Numbers in thousands						%
	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Australia*
Merino	43,714	8,271	16,776	10,144	11,273	279	73.7
Corriedale	2,782	3,801	45	698	359	466	6.6
Polwarth	162	994	1	24	2	485	1.4
Border Leicester	303	103	4	12	16	36	0.4
Romney Marsh	115	142	1	40	37	55	0.3
Dorset Horn	135	103	2	23	15	11	0.2
Southdown	37	42	1	4	22	23	0.1
Leicester	3	6	—	—	7	8	0.1
Ryeland	2	14	—	1	1	7	
Suffolk	—	4	—	7	1	4	
Shropshire	1	3	—	—	2	1	
Lincoln	—	6	—	1	—	1	
Other breeds	1	3	—	—	—	3	
Merino Comebacks	4,142	2,251	50	209	185	338	5.8
Crossbreds (Half-bred Merino and coarser)	6,604	5,625	150	874	554	704	11.4

* These totals include the 281,000 sheep in Northern Territory and Australian Capital Territory.

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AUSTRIA

HORSE

236,000 in 1955 (Dec.)

	Estimated %
Heavy draft (Noric)	80
Hafling	12
Light (*Warmblut* — Oldenburg, English Halfbred and Nonius)	6
Crossbred	2

CATTLE

2,346,000 in 1955 (Dec.)

	% (1954 Census)
Austrian Simmental (*Fleckvieh*)	40.0
Pinzgau	15.7
Austrian Brown (*Braunvieh*)	13.3
Murboden	11.7
Blond (Carinthian and Waldviertel)	11.3
Oberinntal (*Grauvieh*)	1.8
Black Pied Lowland	0.8
Crossbred	5.4

SHEEP

255,000 in 1955 (Dec.)

	Estimated %
Tyrol Mountain (*Bergschaf*)	81
Merino	4
East Friesian	3
Blackheaded Mutton	1
Karakul	1
Crossbred	10

GOAT

256,000 in 1955 (Dec.)

Pinzgau	80
Saanen	5
Toggenburg	3.5
Local and crossbred	11.5

PIG

2,933,000 in 1955 (Dec.)

	Estimated %
German Yorkshire (*Edelschwein*)	60
German Improved Landrace	25
Crossbred	15

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BULGARIA

CATTLE

1,711,000 in 1947 (Aug.)

	Census 1948-52 %
Bulgarian Grey (inc. Iskur and Stara Planina)	82.1
Brown Mountain and crosses (inc. Sofia Brown)	6.6
Simmental and crosses (inc. Kula)	5.3
Rhodope	3.8
Red Sadovo, Ukrainian Red and their crosses	1.3
Others (inc. Black and Red Pied Lowland)	1.0

SHEEP

7,640,000 in 1953 (Dec.)

Bulgarian Native	64.5
Karnobat-Shumen	22.2
White South Bulgarian	4.2
Pleven Blackhead	3.3
Svishtov	2.8
Tsigai and crosses	1.6
Merino and crosses	0.8
Karakachan	0.6

PIG

870,000 in 1947

Bulgarian Improved White	88.8
East Balkan	5.3
Mangalitsa and crosses	4.6
Dermantsi Black Spotted	0.5
Others (inc. Bulgarian Native and Large Black)	0.7

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[Supplement to maps of breed distribution]

DENMARK

HORSE

358,000 in 1954 (July)

	% in 1954 Mares	% in 1954 Stallions
Heavy:		
Belgian	24.4	29.4
Jutland	22.3	14.9
Other heavy breeds	11.7	5.0
Light:		
Fjord	12.0	15.5
Frederiksborg	8.4	13.2
Oldenburg	9.1	12.2
Trotters	0.2	2.0
Thoroughbred	0.2	1.1
Other light breeds	10.5	4.2
Others (breed not specified)	1.2	2.5

CATTLE

3,152,000 in 1954 (July)

	% in 1954 Cows	% in 1954 Bulls
Red Danish	69.5	59.5
Black Pied Danish	15.9	19.7
Danish Jersey	7.8	8.8
Shorthorn	3.6	5.1
Other breeds and crosses	3.2	6.9

SHEEP

33,000 in 1954 (July)

	% in 1952
Oxford Down	40
Danish Landrace	30
Leicester	15
Cotswold	15
Shropshire	0.5
Romney Marsh	0.5

PIG

4,840,000 in 1954 (July)

	Breeding animals at registered breeding centres (1955) No.	%
Danish Landrace	2378	99.5
Large White	13	0.5

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FRANCE

HORSE

2,423,000 in 1948
2,277,000 in 1953 (Dec.)

	Census 1948 No.	%
French Ardennes, Trait du Nord, Auxois and derivatives	500,000	20.6
Percheron and derivatives (Maine, Nivernais, Augeron, Berry, Bourbonnais, Loire, Saône-et-Loire)	500,000	20.6
Breton	370,000	15.3
Boulonnais	140,000	5.8
Anglo-Norman and derivatives (Charentais, Charollais, Vendée, Norman Cob)	60,000	2.5
Comtois	15,000	0.6
Poitou (*mulassière*)	12,000	0.5
Arab and Anglo-Arab (inc. Limousin)	11,000	0.5
English Thoroughbred	8,000	0.3
French Trotter	6,000	0.3
Landes Pony	600	—
Ariège or Mérens Pony	500	—
Crossbreds and various	800,000	33.0

PIG

7,328,000 in 1953 (Oct.)

	Breeding animals in 1953 No.	%
Large White	320,000	33.6
West French White (inc. Craon, Normandy, Flemish, Boulonnais, Breton)	175,000	18.4
German Improved Landrace (*Ameliorée de l'Est*)	30,000	3.2
Limousin (inc. Périgord)	13,000	1.4
Basque Black-Pied	12,000	1.3
Gascony	10,000	1.1
Bayeux	6,000	0.6
Miélan	6,000	0.6
Corsican	4,000	0.4
Crossbreds and various	375,000	39.4

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GERMANY

HORSE

1,455,000 in 1951 (Dec.)
1,097,000 in 1955 (Dec.) West

	West Germany Sires licensed 1951	
	No.	%
Heavy (*Kaltblut*)	2,426	59.8
Light (*Warmblut*)	1,284	31.6
Pony	212	5.2
Trotter	82	2.0
Thoroughbred	35	0.9
Hafling	19	0.5

CATTLE

11,375,000 in 1951 (Dec.)
11,529,000 in 1955 (Dec.) West

German Simmental (Spotted Mountain)	33,076	40.4
Black Pied Lowland	25,782	31.5
Red Pied Lowland	7,122	8.7
German Brown (Grey-Brown Mountain)	6,473	7.9
Yellow Hill (inc. Limpurg)	5,258	6.4
German Red (Red Hill)	946	1.2
Pinzgau	806	1.0
Angeln	721	0.9
Vorderwald	627	0.8
(German) Shorthorn	487	0.6
Murnau-Werdenfels	311	0.4
Hinterwald	152	0.2
Aberdeen-Angus and Jersey	2	

SHEEP

1,197,000 in East (1951) 1,666,000 in West, 1951 (Dec.)
1,185,000 in West, 1955 (Dec.)

	East Germany %		
Württemberg Merino (*Merino Landschaf*)	15.2	4,057	31.9
German Whiteheaded Mutton	1.4	3,398	26.7
German Blackheaded Mutton	1.8	2,211	17.4
Merino (only Mutton Merino in West)	40.0	1,029	8.1
East Friesian (*Milchschaf*)	14.5	867	6.9
German Heath (*Heidschnucke*)	1.8	423	3.3
Leine	1.8	411	3.2
Bentheim	—	175	1.4
Rhön	3.1	55	0.4
German Mountain	—	55	0.4
Karakul	0.4	25	0.2
Pomeranian	10.4	—	—
Crossbreds	8.7	9	0.1

GOAT

1,302,000 in 1951 (Dec.)
766,000 in 1955 West

	West Germany Sires licensed 1951	
	No.	%
White German Improved	9,692	60.0
Fawn German Improved	6,468	40.0

PIG

12,435,000 in 1953 (Dec.)
14,586,000 in 1955 (Dec.) West

German Improved Landrace	19,796	76.8
Angeln Saddleback	2,259	8.8
German Yorkshire (*Edelschwein*)	1,596	6.2
Swabian-Hall	1,097	4.2
German Cornwall (Large Black)	415	1.6
Bentheim Black Pied	284	1.1
German Berkshire	261	1.0
German Pasture	44	0.2
Red pigs	35	0.1

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ITALY

CATTLE

6,872,000 in 1947
9,033,000 in 1954 (Jan.)

		Census 1947 No.	%
Dairy breeds:			
Brown Alpine		1,688,400	24.6
Friesian		312,400	4.5
Aosta, Black and Red Pied		115,500	1.7
Brown Sardinian		68,900	1.0
Rendena		54,800	0.8
Burlina		15,300	0.2
Work breeds:			
Apulian (inc. Venetian	203,800	462,300	6.7
Abruzzi-Molise	30,200		
Calabrian	99,700)		
Maremma		169,400	2.5
Sicilian		148,300	2.1
Sardinian		59,500	0.9
Work-Meat breeds:			
Romagna		383,200	5.6
Marche		322,200	4.7
Chiana (inc. Calvana	12,500	301,600	4.4
Perugia	143,200)		
Triple purpose breeds:			
Piedmont		539,000	7.9
Grey Alpine		308,800	4.5
Modena (Po)		177,500	2.6
Grey Adige		148,900	2.2
Red Pied Friuli (Simmental)		142,700	2.1
Reggio		104,200	1.5
Modica		44,500	0.6
Mölltal (Pinzgau)		43,900	0.6
Tortona		35,500	0.5
Pontremoli		18,200	0.3
Garfagnana		12,500	0.2
Pisa		11,100	0.1
Tarentaise (Savoy or Tarine)		7,400	0.1
Crosses:			
Brown Alpine × Friesian		266,400	3.8
Other Brown Alpine crosses		181,200	2.7
Podolian crosses		241,300	3.6
Modica-Sardinian		37,000	0.5
Unspecified breed or cross		450,000	6.5

PIG

3,557,000 in 1947 (Dec.)
3,746,000 in 1954 (Jan.)

	Census 1947 No.	%
Large White and crosses	1,523,600	42.9
Romagna	201,600	5.7
Caserta	188,200	5.3
Siena Belted	152,200	4.3
Apulian and Calabrian	140,500	3.9
Modena	134,400	3.8
Parma	118,900	3.3
Perugia	111,200	3.1
Sardinian	98,000	2.7
Mascherina	89,200	2.5
Sicilian	77,100	2.2
Chiana	57,800	1.6
Friuli	35,100	1.0
Large Black	26,300	0.7
Berkshire	19,900	0.6
Cavallino	10,000	0.3
Borgo	8,600	0.2
Maremma	5,300	0.2
Others	558,900	15.7

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NORWAY

CATTLE

1,181,000 in 1954 (June)

	% in 1955
South and West Norwegian	29.5
Red Polled Østland	15.4
Blacksided Trondheim	15.0
Telemark	13.4
Red Trondheim	10.7
Norwegian Red-and-White	10.4
Døle	5.5
Jersey	0.1

SHEEP

1,930,000 in 1951; 1,952,000 in 1954 (June)

	% in 1951
Cheviot	23
Dala	18
Old Norwegian	7
Rygja	6
Crossbred	46

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UNITED KINGDOM

HORSE

370,000 in 1953

		Number of licensed stallions standing			Total as % of all stallions (United Kingdom)
		England and Wales (1956)	Scotland (1955)	Northern Ireland (1955)	
Heavy:	Clydesdale	19	73	24	13.0
	Shire	53	—	—	5.9
	Suffolk	29	—	—	3.2
	Percheron	25	—	—	2.8
	Cleveland Bay	8	—	—	0.9
	Irish Draught	—	—	3	0.3
	Non-pedigree	11			1.2
Light:	Thoroughbred	112	4	10	14.1
	Arab	78	8	—	9.6
	Hackney	65	16	—	9.1
	British Spotted	2	—	—	0.2
	Non-pedigree	46			5.1
Ponies:	Welsh Mountain	56	3		
	Welsh Cob	21	—		
	Shetland	12	36		
	Highland	7	40		
	Dartmoor	13	—		
	New Forest	12	—		
	Dales	6	—	17	32.1
	Exmoor	6	3		
	Fell	6	—		
	Polo and Riding	6	—		
	Connemara	4	—		
	British Palomino	1	—		
	Non-pedigree	38			
Halfbreds				10	1.1
Non-pedigree			12		1.3
	Total horses (1955)	234,700	39,200		

N.B. *Licences are not obligatory for semi-wild mountain and moorland ponies*

CATTLE

10,755,000 in 1955 (Dec.)

	Number of bulls licensed				Total as % of all bulls licensed (United Kingdom)
	England (1955-56)	Wales (1955-56)	Scotland (1955)	Northern Ireland (1955)	
Dairy:					
British Friesian	5,517	720	703	345	26.1
Ayrshire	1,593	85	3,384	121	18.6
Guernsey	735	13	5	—	2.7
Jersey	624	18	44	8	2.5
Canadian Holstein	35	2	—	—	0.1
Kerry	5	—	—	1	
Blue Albion	2	—	—	—	
Shetland	—	—	7	—	
Dual-Purpose:					
Dairy Shorthorn	4,068*	252*	210	126	16.7
Lincoln Red Shorthorn	614	—	—	—	2.2
Red Poll	350	10	8	3	1.3
South Devon	190	—	—	—	0.7
Welsh Black	3	180	—	—	0.7
Dexter	16	1	—	—	0.1
British White	12	—	2	—	0.1
Beef:					
Aberdeen-Angus	1,032	23	1,636	189	10.3
Hereford	1,596	504	64	102	8.1
Beef Shorthorn	120†	6†	685	742	5.6
Galloway	276	10	352	39	2.4
Devon	279	—	—	—	1.0
Sussex	143	—	2	—	0.5
Highland	1	—	62	—	0.2
Belted Galloway	7	1	11	—	0.1
Polled Shorthorn	—	—	3	—	
Total cattle (1955)	8,245,000		1,630,000	879,000	

* Dairy + General licences † Beef licences

PIG

5,974,000 in 1955 (Dec.)

	Number of boars licensed				Total as % of all boars licensed (United Kingdom)
	England (1995-56)	Wales (1955-56)	Scotland (1955)	Northern Ireland (1955)	
Large White	9,210	278	1,397	549	56.6
British Landrace	6,171	179	857	69	36.0
Welsh	402	110	6	10	2.6
Wessex Saddleback	308	8	34	9	1.8
Essex	258	—	10	—	1.3
Large Black	121	—	2	4	0.6
Middle White	51	1	—	—	0.3
Tamworth	43	—	4	—	0.2
Gloucestershire Old Spots	25	2	—	—	0.1
Berkshire	25	—	—	—	0.1
National Long White Lop-eared	10	—	—	—	
Yorkshire Blue and White	7	—	—	—	
Lincolnshire Curly Coat	2	—	—	—	0.1
Cumberland	1	—	—	—	
Dorset Gold Tip	1	—	—	—	
Oxford Sandy-and-Black	1	—	—	—	
Crossbred	33	—	—	—	0.2
Total pigs (1955)	4,867,000		466,000	641,000	

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