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USSR (1.0); Erfurt Ge 1.0*; Halle Ge 0.1; Kansas USA 2.2; Katowice Pol 1.0*; Kazan USSR (1.0); Leningrad USSR 1.2; Marwell GB 2.2(0.1)*; Nuremberg Ge 0.2(0.1)*; Prague Cz 1.2(1.1)*; Riga USSR 0.1*; Rome It 1.1(1.0); San Diego WAP USA 0.2*; Schwerin Ge 0.1*; Tallin USSR (1.0); Termez USSR 0.1; Wroclaw Pol 1.0.

*INDIAN WILD ASS *E. h. khur* IUCN(E)
Ahmedabad Ind 1.0.

E. h. hemionus × *E. h. kulan*
Krefeld Ge (1.0)*.

*KIANG *Equus kiang* IUCN(V)
Riga USSR (0.2)*; Rostov USSR (1.0).

Equus kiang holdereri
Berlin E Ge 2.0.

*SOMALI WILD ASS *Equus africanus somaliensis* IUCN(E)
Basle Switz 0.2; Nuremberg Ge (1.0); Oberwil Switz 2.0(1.0); Stuttgart Ge 1.0.

GRANT'S ZEBRA *Equus burchelli boehmi*
Total bred: 51.59.21(10.12.4)+ in 61 collections.

DAMARA ZEBRA *E. b. antiquorum*
Bristol GB 1.1; Cincinnati USA 1.1(0.1); Cologne Ge 2.0(1.0)*; Doswell USA 1.1; Duisburg Ge 4.2*; Dvur Kralove Cz 1.0*; Heidelberg Ge 0.1*; Helsinki Fin 1.0*; Kings Mills USA 2.0*; Krefeld Ge 1.0; Landau Ge 1.0*; Little Rock USA 1.0*; Planckendael Bel 1*; Prague Cz 1.0*; Rostock Ge (0.1); Schwerin Ge (0.1)*; Seattle WP USA 0.1*; Wichita USA 1.1.

CHAPMAN'S ZEBRA *E. b. chapmani*
Adelaide Austral 0.1*; Askaniya-Nova USSR 3.2(1.0); Bloemfontein SA 0.1; Burford GB 0.2; Christchurch OP NZ 0.1*; Doue la Fontaine Fr 1.0; Dvur Kralove Cz 4.2(1.0); Hamburg Ge 1.0; Liberec Cz 1.2(0.1); Longleat GB 0.2*; Marwell GB (1.0.1); Montpellier Fr 1.1; Quebec Can 1.0; Riga USSR (1.0)*; Rome It 1.0; San Antonio USA 0.1*; Sioux Falls USA 1.1(1.0)*; Taipei Tai 0.1; Wakayamaken Jap 5.5(2.1); Werribee Austral 0.1; Zurich Switz 0.1*.

MANELESS ZEBRA *E. burchelli* ssp
Dvur Kralove Cz (1.0); Gottwaldov-Lesna Cz 1.0*.

*GREVY'S ZEBRA *Equus grevyi* IUCN(E)
Amersfoort Ne 1.1*; Berlin W Ge (1.0)*; Boston USA 1.0; Budapest Hun 1.0*; Catskill USA 1.1*; Chicago LP USA 0.1*; Dallas USA 1.1; Dvur Kralove Cz 4.3(2.2)*; Frankfurt Ge (1.1)*; Hamburg Ge 0.2; Leipzig Ge (1.0)*; Marwell GB 2.0(1.0); Misaki Jap (1.1)*; Monroe USA 1.1; Nuremberg Ge 0.1; Oberwil Switz (1.0); Oklahoma USA 1.0; Ostrava Cz (0.1)*; Poznan Pol 0.2(0.1)*; Prague Cz 0.1; Royan Fr 0.1*; St Paul USA 0.2(0.1); San Diego

WAP USA 4.3(1.0)*; Sao Paulo Braz 2.0; Stuttgart Ge 0.2*; Tampa USA 6.7.1; Tokyo Tama Jap (1.0); Toronto Can 0.1*; Tucson RP USA 0.1; Tyler USA 0.1*; Vienna Aus (1)*; Whipnade GB 1.1*; Yokohama Jap 1.0; Yulee USA 2.1*.

*HARTMANN'S MOUNTAIN ZEBRA

Equus zebra hartmannae IUCN(V)
Amsterdam Ne 0.1*; Berlin E Ge (1.1); Dvur Kralove Cz 0.1*; Gelsenkirchen Ge 0.1*; Marwell GB 1.2*; Munich Ge 0.1; Paris PZ Fr 1.0; San Diego WAP USA 4.1(0.1)*; Usti Cz 1.3.

*BAIRD'S TAPIR *Tapirus bairdi* IUCN(V)
Columbia USA (1.0); San Diego USA 1.0.

*MALAYAN TAPIR *Tapirus indicus* IUCN(E)
Antwerp Bel 0.1; Copenhagen Den 0.1*; Memphis USA 1.0; Milwaukee USA 1.0*; Minneapolis USA 0.1*; Munich Ge 1.0*; NY Bronx USA 1.0*; Nuremberg Ge 0.1; Philadelphia USA 0.1; St Louis USA 0.1; San Diego USA (0.1); Singapore 0.1; Tokyo Tama Jap 1.0; Toronto Can 1.0.

*MOUNTAIN or WOOLLY TAPIR *Tapirus pinchaque* IUCN(V)
Los Angeles USA (1.0).

SOUTH AMERICAN TAPIR *Tapirus terrestris*

Agrate It (0.1)*; Alma-Ata USSR (1.0); Barquisimeto Ven 1.0; Birmingham USA (1.0); Buffalo USA 0.1*; Chester GB 0.1*; Denver USA 0.1; Dortmund Ge (0.1)*; Dresden Ge 1.0*; Edinburgh GB 0.1; Emmen Ne 1.0; Fresno USA 1.0*; Gelsenkirchen Ge 1.1*; Gottwaldov-Lesna Cz 1.0*; Hamburg Ge 1.0; Katowice Pol 2.0(1.0)*; Leningrad USSR 1.0; Lima Peru 2.0(1.0); London ZSL GB 1.0*; Magdeburg Ge (0.1)*; Marwell GB 0.1; Melbourne Austral (0.1)*; Milwaukee USA 1.0*; New Orleans USA 1.1*; Poznan Pol 2.0(1.0)*; Rabat Maroc 1.0*; Riga USSR 0.1*; Rome It 0.1; San Francisco USA 0.1; Sao Leopoldo Braz 0.1*; Thetford GB 1.0*; Wroclaw Pol (0.1); Zurich Switz 0.1.

*INDIAN RHINOCEROS *Rhinoceros unicornis* IUCN(E)
Los Angeles USA 1.0; Philadelphia USA 1.0; San Diego WAP USA 1.0; Stuttgart Ge 1.0*.

*SOUTHERN WHITE RHINOCEROS

Ceratotherium s. simum RARE
Dubbo Austral 0.1; Edinburgh GB (0.1); Hilvarenbeek Ne 1.1; Katowice Pol (1.0); Knoxville USA 1.0; Memphis USA 0.1; Munster Ge 0.1; Prescott GB 1.0; Ramat-Gan Is 2.0; San Antonio

USA 0.1; San Diego WAP USA 2.2; Santo Domingo Dom 1.0; Toronto Can 1.0; Whipsnade GB 1.0.

✕ *BLACK RHINOCEROS *Diceros bicornis* IUCN(E)
Chicago Br USA 0.1; Cincinnati USA 1.1; Delhi Ind (1.0)*; Detroit USA (1.0)*; Los Angeles USA 0.1*; St Louis USA 0.1; San Francisco USA 0.1.

ARTIODACTYLA

BUSH PIG or RED RIVER HOG
Potamochoerus porcus
Duisburg Ge (0.2).

WILD BOAR *Sus scrofa*
Total bred: 79.75.134(7.13.39) in 31 collections. M.

JAPANESE WILD BOAR *S. s. leucomystax*
Hiroshima Jap 3.5.1(1).

*RYUKYU WILD BOAR *S. s. riukiuanus* IUCN (v)
Osaka Jap 4.6(2.3).

*JAVAN WARTY PIG *Sus verrucosus* IUCN (v)
Singapore 1.2(1.0).

WART HOG *Phacochoerus aethiopicus*
Bloemfontein SA (2.1); Gelsenkirchen Ge 2.2(1.1); Hamburg Ge (1)*; Kaliningrad USSR 1.2*; Moscow USSR 5.4(2.3); Novosibirsk USSR (2); Stuttgart Ge 1.2(0.2)*; Tashkent USSR 3.2(2.0).

*BABIRUSA *Babyrousa babyrussa* IUCN(v)
Antwerp Bel (2); Frankfurt Ge 1.1*; Jersey GB 1.0.1(1)*; Los Angeles USA (1)*; Rotterdam Ne 2*.

WHITE-LIPPED PECCARY *Tayassu pecari* (= *albirostris*)
Curitiba Braz 1; Lima Peru 6(3).

COLLARED PECCARY *Tayassu tajacu*
Abilene USA 2(1); Adelaide Austral 4(1); Barquisimeto Ven 2.2; Berlin W Ge 1.2.1(1); Buffalo USA 1.1; Catskill USA 1.2; Chicago Br USA 2.2; Detroit USA 1.3.7(0.2.4); Gainesville USA 2.1.2(2); Ito Jap 1.2.5(1.2.1); Kraaifontein SA 1.1; Lima Peru 2(1); London ZSL GB (1.1); Madrid Sp 4.2; Malton GB 2.3(1.1); Marwell GB 0.1.3(1); Melbourne Austral 2; Mexico San Juan 5.2(1.0); Mulhouse Fr 0.1; Munster Ge 0.3.1(0.2.1); NY Bronx USA 8.1(2.0); Paramus USA 3.1; Rabat Moroc 11(3); Rochester USA 2.3.3(2.1.3); San Antonio USA 2.2; Sao Leopoldo Braz 9; Sao Paulo Braz 2.2; Sorocaba Braz 1.0; Stuttgart Ge 8; Tulsa USA 1.0; Tuxtla Mex 14; Whipsnade GB 1.1(0.1); Wichita USA 2.1.1. M.

HIPPOPOTAMUS *Hippopotamus amphibius*
Adelaide Austral 0.1*; Amsterdam Ne 0.1*; Antwerp Bel 1.0; Auckland NZ (0.1); Chester GB (1.0); Colorado USA (1.0); Copenhagen Den (2.0)*; Denver USA 0.1; Dubbo Austral 1.0*; Dvur Kralove Cz 0.1*; Fresno USA 1.0; Granby Can 1.0; Hanover Ge 1.0; Jakarta Indon (0.1); Kaliningrad USSR (0.1)*; Kanpur Ind 1.0; Kharkov USSR 1.0*; Kobe Jap 1.0*; Leipzig Ge 0.1*; Madras Ind (0.1)*; Mexico San Juan 3.0(1.0); New Orleans USA (0.1); Nuremberg Ge 1.0*; Ramat-Gan Is 4*; Royan Fr 1.0; St Louis USA 1.0; San Francisco USA 0.1; Santo Domingo Dom 0.1; Sao Leopoldo Braz 1.0*; Toronto Can 0.1; Vienna Aus 1.0*; Wakayamaken Jap 1.0*; Washington NZP USA 0.1*; Wroclaw Pol 0.1; Zurich Switz 0.1*.

*PYGMY HIPPOPOTAMUS *Choeropsis liberiensis* IUCN(v)
Aalborg Den (1.0); Atina It 1.0; Basle Switz 1.0*; Baton Rouge USA (1.0)*; Berlin W Ge 1.0*; Brownsville USA 0.1; Dvur Kralove Cz 0.1*; Fort Worth USA 0.1; Halle Ge 0.1; Kaliningrad USSR 0.1*; Leipzig Ge 1.0*; Munich Ge 1.0*; Poznan Pol 0.1; Pretoria SA (1.0)*; St Louis USA 0.1; San Diego USA 0.1; San Diego WAP USA (1.0)*; Singapore 1; Sydney Austral 0.1*; Zurich Switz (1.0).

LLAMA *Lama glama*
Total bred: 150.174.5(22.20.3) in 138 collections. M.

GUANACO *Lama guanicoe*
Total bred: 76.83.5(17.21.1) in 76 collections.

ALPACA *Lama pacos*
Total bred: 51.36.3(9.2.2) in 39 collections.

*VICUGNA *Lama vicugna* IUCN(v)
Amsterdam Ne 1.0; Frankfurt Ge 1.0; London ZSL GB 1.1; Munich Ge 2.0(1.0); Pretoria SA 1.0; Winnipeg Can 0.2(0.1); Zurich Switz 1.1(1.0). M.

ARABIAN CAMEL or DROMEDARY
Camelus dromedarius
Total bred: 20.24.3(5.0.1) in 29 collections.

BACTRIAN CAMEL *Camelus ferus* (= *bactrianus*) dom.
Total bred: 48.49.6(12.7.2) in 63 collections. M.

CAMEL HYBRID *C. ferus* × *C. dromedarius*
Chard GB 0.1*.

LESSER MALAY CHEVROTAIN *Tragulus javanicus* RARE
Amsterdam Ne 6.4.4(2.1.4); Copenhagen Den 0.2; Zurich Switz 2.6(1.4). M.