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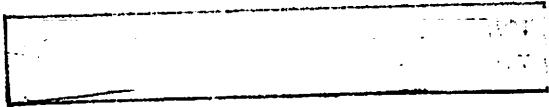
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Diego USA 1/2(1/2); Stuttgart Ge 1/2(1/2); Tampa USA 1/1(1/1); Teheran Iran 2/1(1/0); Tel Aviv Is 1/0; Tilburg Ne 2/2; Whipsnade GB 3/4(3/1); Wrocław Pol 2/2.

Total: 71/74(38/34/5) in 43 zoos.

*KULAN or TURKMENIAN WILD ASS
Equus hemionus kulan (Groves & Mazak, 1967)†
IUCN RARE

Ashkhabad USSR 1/0; Askaniya-Nova USSR 5/14(2/6); Berlin E Ge 3/6(2/3); Halle Ge 1/3(1/3); Kaunas USSR 1/1(1/0); Khar'kov USSR 2/1; Kiev USSR 3/1(2/0); ?Kolmarden 1/1; Krefeld Ge 1/0(1/0); Leipzig Ge 1/2; Leningrad USSR 1/2(0/1); Moscow USSR 1/2(0/1); Munich Ge 2/2(1/1); Novosibirsk USSR 1/1(1/0); Odessa USSR 1/1; Plock Pol 1/1; Prague Cz 2/2(1/1); Rheine Ge 1/0(1/0); Tallin USSR 1/0; Termez USSR 1/1(1/0); Whipsnade GB 2/2(1/1). Total: 32/42(15/17) in 20 zoos+1/1 *subsp. indet.* at Kolmarden Zoo.

† Following the revision of the taxonomy of the Asiatic wild asses by C. P. Groves and V. Mazak, *Z. Säugetierk.* 34: 321, it is recommended that all specimens which originate from the Badchys nature reserve in the Turkmenian People's Republic should be ascribed to *E. h. kulan*. See Mohr, E. (1968): *Study-books for wild animals in captivity, Int. Zoo Yb.* 8: 159-166.

*KIANG *E. h. kiang* IUCN RARE

Kaunas USSR 0/1(0/1); Prague Cz 1/0; Riga USSR 1/3(0/2); Rome It 1/0(1/0) hybrid.
Total: 2/4(0/3) in 3 zoos+1/0(1/0) hybrid at Rome Zoo.

*INDIAN WILD ASS *E. h. khur* IUCN RARE

Ahmedahad Ind 1/2(0/1); Baroda Ind 3/2(?b); Junagadh Ind 2/0; Mysore Ind 1/1.
Total: 7/5(0/1) in 4 zoos.

*NUBIAN WILD ASS *Equus asinus africanus*
IUCN RARE

Berlin E Ge 1/0(1/0); Catskill USA 4/4(4/4); Halle Ge 1/2(1/2); Los Angeles USA 1/1(1/1); Miami Crandon Pk USA 1/1(1/1); Munich Ge 3/2(3/2); Vienna Austria 1/0(1/0) ?hybrid.
Total: 11/10(11/10) in 6 zoos+1/0(1/0) ?hybrid at Vienna Zoo.

*SOMALI WILD ASS *E. a. somalicus*
IUCN RARE

Basle Switz 3/2; Catskill USA 3/5(3/5).
Species total: 17/17(14/15) in 7 zoos+1/0(1/0) ?hybrid.

*HARTMANN'S MOUNTAIN ZEBRA
Equus zebra hartmannae IUCN RARE

Aalborg Den; Amanzimtoti SA 1/1; Askaniya-Nova USSR 0/2(0/2); Berlin E Ge 1/2; Berlin W Ge 2/3(1/3); Bremen Ge; Catskill USA 3/4(1/1); Coucy-les-Eppes Fr 1; Durbanville SA 1/0; Edmonton AGF Can 1/1; Erfurt Ge 1/4(0/2); Halle Ge 1/0(1/0); Johannesburg SA 1/1; La Fleche Fr 0/1; Lisbon Port 0/1; Longleat GB 1/0(1/0); Los Angeles USA 0/1(0/1); Manila Phil 0/1; Mayaguez PR 1/0; Montpellier Fr 1/0; Munich Ge 1/4(1/4); Okahandja SWA; Oklahoma USA 2/2(1/0); Ozoir Fr 1/0; Paris PZ Fr 2/3(2/3); Penticton Can 0/1(0/1); Philadelphia USA 1/2(1/1); Prague Cz

0/4(0/3); Pretoria SA 0/1; San Diego USA 2/4(2/2); West Palm Beach LCS USA 2/4(1/1); Whipsnade GB 1/1(1/0); Winnipeg Can 1/2(1/2); Zurich Switz 2/3(0/2).

Total: 30/53(14/28) min. in 34 zoos.

*MOUNTAIN or WOOLLY TAPIR *Tapirus pinchaque* IUCN RARE

Frankfurt Ge 1/1; Leipzig Ge 1/1; Los Angeles USA 1/2; Memphis USA 1/1; Paris PZ Fr 1/0; San Antonio USA 2/1; Stuttgart Ge 0/1.
Total: 7/7 in 7 zoos.

*BAIRD'S TAPIR *Tapirus bairdii*
IUCN RARE

Baltimore USA 1/0; Los Angeles USA 2/1; Mexico Chapultepec 1/1; Miami Crandon Pk USA 1/0; San Diego USA 1/1; San Francisco USA 1/1; Tuxtla Mex 2/3(1/2).
Total: 9/7(1/2) in 7 zoos.

MALAYAN TAPIR *Tapirus indicus*

Amsterdam Ne 1/1; Basle Switz 1/2(0/1); Berlin E Ge 1/4(1/2); Berlin W Ge 1/2; Chester GB 1/1; Chicago Brookfield USA 0/1; Colombo Cey 1/1; Copenhagen Den 1/1; Dallas USA 1/1; Hanover Ge 1/2; Heidelberg Ge 1/2(1/1); Leipzig Ge 1/1; London ZSL GB 1/1; Los Angeles USA 1/1; Milan It 1/2; Milwaukee USA 1/2(0/1); Monroe USA 1/1; Nagoya Jap 0/1; Naples It 1/1; Nuremberg Ge 1/2(0/1); Penticton Can 1/0; Philadelphia USA 1/2(0/1); Prague Cz 0/1(0/1); Rangoon Burm 0/1; Rome It 1/1; St Louis USA 2/2(1/0); San Antonio USA 0/2; San Diego USA 1/2(0/1); San Francisco USA 1/0; Seattle USA 1/0; Sendai Jap 1/1; Stuttgart Ge 1/2(0/1); Taiping Mal 0/1; Tokyo Tama Jap 1/1; Tunis Tun 0/1; Twycross GB 1/1; Vienna Austria 1/1(0/1); Zurich Switz 1/0.
Total: 32/49(3/11) in 38 zoos.

*GREAT INDIAN RHINOCEROS *Rhinoceros unicornis* IUCN RARE

Basle Switz 2/4(1/3)†; Berlin E Ge 0/1; Berlin W Ge 1/1(1/1); Bombay Ind 1/0; Calcutta Ind 1/1; Chicago Brookfield USA 1/0; Delhi Ind 1/1; Gauhati Ind; Hamburg Ge 1/1(1/1); Hyderabad Ind; Los Angeles USA 1/2; Lucknow Ind 1/1; Madras Ind 1/0; Milwaukee USA 1/1; Mysore Ind 2/1(1/0); Omaha USA 1/0; Paris PZ Fr 1/0; Philadelphia USA 1/1; Rome It 1/0; San Diego USA 1/1(1/0); Stuttgart Ge 1/1(1/1); Tokyo Tama Jap 1/1; Trivandrum Ind 1/0; Washington NZP USA 1/1; Whipsnade GB 1/1(1/0).
Total: 24/20(7/6) min. in 25 zoos.

† Includes 0/1 on loan from Stuttgart Zoo.

*SUMATRAN RHINOCEROS *Didermoceros sumatrensis* IUCN RARE

Copenhagen Den 0/1.

*SOUTHERN WHITE RHINOCEROS
Ceratotherium simum simum

Berlin E Ge 1/1; Berlin W Ge 1/1; Boras Swed 1/1; Catskill USA 1/1; Chester GB 1/1; Chicago Brookfield USA 1/1; Cologne Ce 1/0; Dresden Ge 1/1;

Duisburg Ge 1/1; Durbanville SA 1/1; Edmonton AGF Can 1/1; Fort Worth USA 1/1; Gelsenkirchen Ge 1/1; Jacksonville USA 1/1; Johannesburg SA 2/2; Kolmarden Swed 1/1; Leipzig Ge 1/1; Lisbon Port 1/1; London ZSL GB 0/1; Los Angeles USA 1/1; Louisville USA 1/1; Memphis USA 1/1; Milwaukee USA 1/2; NY Bronx USA 1/1; Oklahoma USA 1/1; Omaha USA 1/1; Phoenix USA 1/1; Pretoria SA 5/3 (2/0); Rangoon Burm 1/1; Rotterdam Ne 1/1; San Diego USA 1/1; San Francisco USA 1/1; Sendai Jap 1/1; Tampa USA 1/1; Thoiry Fr 1/1; Tokyo Ueno Jap 1/1; Whipsnade GB 8/14; Zurich Switz 1/1.
Total: 49/54(2/0) in 38 zoos.

*NORTHERN WHITE RHINOCEROS

C. s. cottoni IUCN RARE

Antwerp Bel 0/1; Khartoum Sudan 1/1; London ZSL GB 1/0; St Louis USA 1/1; Washington NZP USA 1/1.

Total: 4/4 in 5 zoos.

Species total: 53/58(2/0) in 42 zoos.

*BLACK RHINOCEROS *Diceros bicornis*

IUCN RARE

Adelaide Austral 1/0; Amsterdam Ne 0/1; Arnhem Ne; Atlanta USA 1/1; Barcelona Sp 1/0(1/0); Berlin E Ge 0/2; Berlin W Ge 1/1; Bristol GB 2/2(1/1); Budapest Hun 0/1; Buenos Aires Arg 1/2; Cairo UAR 1/1; Chester GB 2/1(2/0); Chicago Brookfield USA 0/1; Cincinnati USA 2/1(1/0); Cleethorpes GB 1/0; Cleveland USA 1/0; Colombo Cey 1/1(0/1); Colorado USA 1/1; Columbus USA 1/0; Dallas USA 1/1; Denver USA 1/1; Detroit USA 1/1; Dublin Ire 2/1(2/1); Duluth USA 1/0(1/0); Frankfurt Ge 1/2(0/2); Fresno USA 0/1; Hanover Ge 1/1; Hitachi Jap 1/0; Jacksonville USA 1/1; Kansas USA 1/1; Kobe Jap; Leningrad USSR 1/0; Lisbon Port 2/1(1/0); Lodz Pol 1/0; London ZSL GB 1/2(0/1); Los Angeles USA 1/1; Magdeburg Ge 1/0; Manchester GB 1/1; Manila Phil 1/0; Memphis USA 0/1; Mexico Chapultepec 1/1; Moscow USSR 0/1; Mysore Ind 2/1(1/0); Nagoya Jap 1/2(1/0); Naples It 1/1; NY Bronx USA 1/0; Oklahoma USA 1/1(1/1); Paris PZ Fr 0/1; Perth Austral 0/1; Philadelphia USA 1/0; Pittsburgh USA 1/0; Prague Cz 0/1; Pretoria SA 2/1(1/0); St Louis USA 1/1; San Antonio USA 1/0; San Diego USA 1/1; San Francisco USA 1/1; Sao Paulo Braz 1/0; Southampton GB 1/1; Sydney Austral 2/5(1/3); Tampa USA 1/1(0/1); Teheran Iran 1/1; Tel Aviv Is 1/1; Thoiry Fr 0/1; Turin It 1/1; Vienna Austria 1/0; Washington NZP USA 2/2(1/1); Whipsnade GB 1/1; Wroclaw Pol 1/0; Zagreb Yug 1/1; Zurich Switz 1/2.
Total: 67/63(15/12) min. in 71 zoos.

ARTIODACTYLA

BABIRUSA *Babyrousa babyrussa*

Frankfurt Ge 0/1.

*PIGMY HIPPOPOTAMUS *Choeropsis*

iberiensis IUCN RARE

Amsterdam Ne 1/3(1/1); Antwerp Bel 1/2(1/0); Arnhem Ne; Baltimore USA 2/3(0/1); Basle Switz

4/4(3/4); Berlin E Ge 1/1; Berlin W Ge 1/2(1/2); Birmingham USA 0/1; Bristol GB 1/1(1/1); Catskill USA 1/1(1/1); Chester GB 1/1; Chicago Brookfield USA 1/1; Cincinnati USA 0/2(0/1); Cleveland USA 1/2(1/1); Copenhagen Den 1/1; Dallas USA 1/2(0/1); Edinburgh GB 1/1; Erfurt Ge 1/1(1/0); Fort Worth USA 1/0; Gelsenkirchen Ge 1/1(1/0); Hanover Ge 1/1; Leipzig Ge 1/1; Manchester GB 1/0; Memphis USA 1/1; Miami Crandon Pk USA 1/1; Monrovia Lib (b); Munich Ge 0/2(0/2); Nagoya Jap 0/1; NY Bronx USA 1/4(1/4); Paris PZ Fr 2/2(2/1); Perth Austral 0/1; Philadelphia USA 1/1(1/0); Pittsburgh USA 1/1(1/0); Pretoria SA 3/3(1/1); St Louis USA 2/2(1/1); San Antonio USA 1/1; San Francisco USA 1/1(1/1); Stuttgart Ge 1/1; Sydney Austral 1/2(0/1); Tampa USA 1/1; Tokyo Ueno Jap 1/1(0/1); Toledo USA 0/1; Tunis Tun 0/1; Washington NZP USA 3/5(2/3); Whipsnade GB 1/3; Zurich Switz 1/1(1/0).

Total: 47/69(22/28) min. in 46 zoos.

*VICUNA *Vicugna vicugna* IUCN RARE

Amsterdam Ne 2/3(2/3); Antwerp Bel 5/5(4/3); Berlin E Ge 2/1(2/0); Berlin W Ge 1/1(1/1); Catskill USA 4/7(1/1); Cologne Ge 1/0; Edmonton AGF Can 2/1(2/1); Frankfurt Ge 1/1(1/0); Gelsenkirchen Ge 1/0(1/0); Jerez Sp 1/0; Johannesburg SA 2/0(2/0); Lima Peru 1/1; London ZSL GB 1/0; Munich Ge 2/1(2/1); Paris PZ Fr 3/2(2/1); Pretoria SA 1/1; Rotterdam Ne 1/1; San Diego USA 1/1(1/1); Toledo USA 1/0; Vienna Austria 1/0(1/0); Winnipeg Can 2/1(2/1); Zurich Switz 2/5(2/5).
Total: 38/32(26/18) in 22 zoos.

INDIAN CHEVROTAIN or MOUSE

DEER *Tragulus meminna*

Ahmedabad Ind (b); Bombay Ind 0/2(0/2); Calcutta Ind 2/2; Colombo Cey 3/1(1/0); Delhi Ind 5/7(2/5); Hyderabad Ind; Lucknow Ind 1/1; Mysore Ind 6/5(1/3); Trivandrum Ind 2/4.
Total: 19/22(4/10) min. in 9 zoos.

LESSER MALAY CHEVROTAIN or

MOUSE DEER *Tragulus javanicus*

Hong Kong 1/1; Taiping Mal 2/2.

Tragulus javanicus pidoni

Berlin W Ge 2/2(2/2).

Tragulus javanicus williamsoni

Berlin W Ge 1/3(1/3).

Species total: 6/8(3/5) in 3 zoos.

LARGER MALAY CHEVROTAIN or

MOUSE DEER *Tragulus napu*

Buffalo USA 1/1(1/1); Dallas USA 0/1; Houston USA 1/1(1/1); London GLC GB 1/3(3); NY Bronx USA 16/19(15/18); Philadelphia USA 1/1(1/1); Rangoon Burm 3/2(b).

Total: 23/28(18/21/3) in 7 zoos.

MUSK DEER *Moschus moschiferus*

Berlin E Ge 1/2; Frankfurt Ge 1/1; London ZSL GB 0/1; Rangoon Burm 0/1; Simla Ind.

Total: 2/5 min. in 5 zoos.