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9.12(9.11); Nuremberg Ge 1.1; Oklahoma USA 2.1; Ostrava Czech 2.3; Palm Desert USA 1.1; Paris PZ Fr 1.1; Penza Rus 1.0; Phoenix USA 1.3(1.1); Poznan Pol 2.2; Prague Czech 1.1; Pretoria SA 1.1; Ramat Gan Is 1.4(1.1); Rhenen Ne 1.2; Romaneche-Thorins Fr 1.1; Rome It 0.2; Royan Fr 3.3; Sacramento USA 0.2; St Louis USA 3.3; St Paul USA 1.3(1.2); St Petersburg Rus 1.1; San Antonio USA 1.2; San Diego WAP USA 6.19; Sao Paulo Braz 1.3; Stuttgart Ge 2.7; Taipei Tai 2.2; Tampa USA 3.13; Tokyo Tama Jap 1.4; Toronto Can 1.0; Tucson RP USA 1.2(1.1); Tunis Tunisia 1.0; Tyler USA 1.5; Vienna Aus 1.4; Waco USA 0.2; Washington NZP USA 2.0; Whipnade GB 2.6; Wichita USA 1.2; Winston USA 1.1; Yokohama Jap 1.2; Yulee USA 1.5.

Total: 125.239 in 76 collections; most are presumed captive bred—see Key 6.

No data 1994: Augsburg Ge 3.4; Tripoli Libya 1.0.

Breeding loans from Amersfoort (at Amsterdam); Amsterdam (at Hilvarenbeek); Asheboro (at NY Bronx SCWCC); Baton Rouge (at Detroit); Boston (at NY Bronx SCWCC and Wichita); Brownsville (at Detroit, San Antonio and Wichita); Chicago Br (at Chicago LP); Chicago LP (at Boston, Dallas, Denver and Tucson RP); Dallas (at Chicago Br); Denver (at Wichita); Fort Worth (at NY Bronx SCWCC); Frankfurt (at Mechelen); Marwell (at Chicago Br); NY Bronx (at Boston, Miami MZ and Tyler); Oberwil (at Mechelen); Phoenix (at Toronto); Sacramento (at NY Bronx SCWCC, Oklahoma, St Louis and San Diego WAP); St Louis (at Chicago Br, Detroit, NY Bronx, NY Bronx SCWCC, St Paul, Tucson RP and Washington NZP); San Diego WAP (at Phoenix); Tucson RP (at Chicago LP); Yulee (at San Antonio).

Studbook held: see List of studbooks and world registers.

*HARTMANN'S MOUNTAIN ZEBRA

Equus zebra hartmannae IUCN(V)

Berlin TP Ge 2.4; Berlin ZG Ge 0.2; Dvur Kralove Czech 2.10(2.9); Kawasaki Jap 1.4(0.1); Lichtenburg SA 0.1(0.0); Louisville USA 1.3(1.2); Madison USA 1.2; Marwell GB 1.10; Munich Ge 1.8(0.8); Naples It 1.0; Opole Pol 1.2; Paignton GB 1.5; Paris PZ Fr 1.2; Plock Pol 1.1; Portland USA 1.2; Prague Czech 1.3; Pretoria SA 1.1(1.0); Rome It 1.2; San Diego USA 0.1; San Diego WAP USA 5.10; Santo Domingo Dom 0.1(0.0); Taipei Tai 4.0; Tunis Tunisia 1.0; Usti Czech 1.13.

Total: 29.87 in 24 collections; most are presumed captive bred—see Key 6.

No data 1994: Tripoli Libya 1.0.

Studbook held: see List of studbooks and world registers.

*BAIRD'S TAPIR *Tapirus bairdi* IUCN(V)

Aalborg Den 1.0; Columbia USA 2.1; Columbus USA 2.1; Los Angeles USA 2.1; Miami MZ USA 5.2; New Orleans USA 1.1; Norfolk USA 1.2; San Diego USA 2.3; Tuxtla Mex 0.1(0.0); Wichita USA 1.1; Yokohama KNP Jap 2.1.

Total: 19.14 in 11 collections; most are presumed captive bred—see Key 6.

Breeding loans from Los Angeles (at New Orleans and Wichita).

Studbook held: see List of studbooks and world registers.

*MALAYAN TAPIR *Tapirus indicus* IUCN(E)

Amsterdam Ne 1.2(1.2); Antwerp Bel 1.0(1.0); Bangkok Thai 3.2(1.1); Berlin ZG Ge 1.2(0.1); Chester GB 1.1(1.1); Chiba Jap 1.1(1.1); Chiangmai Thai 2.1(1.0); Chonburi Thai 2.4; Cincinnati USA 1.1(1.1); Cleveland USA 1.1(1.1); Copenhagen Den 1.1(1.1); Denver USA 1.1(1.1); Dortmund Ge 2.2(2.1); Dresden Ge 1.1(1.1); Fukuoka Jap 3.2(3.2); Heidelberg Ge 2.3; Houston USA 2.1(2.1); Katowice Pol 1.0(1.0); Kuala Lumpur Mal 4.3(4.3); Lympne GB 2.5(1.2); Madrid Sp 1.1(1.1); Marwell GB 0.1(0.1); Memphis USA 1.1(1.1); Miami MZ USA 2.2(1.2); Milwaukee USA 2.1(2.0); Minneapolis USA 1.2(1.2); Mulhouse Fr 2.2(2.2); Nagoya Jap 1.1(1.1); NY Bronx USA 3.4(2.3); Nuremberg Ge 1.1(1.1); Oklahoma USA 1.1(1.1); Omaha USA 1.2(1.2); Philadelphia USA 1.1(1.1); Prague Czech 1.0; Pretoria SA 1.1(1.1); Rotterdam Ne 1.3(1.3); St Louis USA 3.2(2.2); San Diego USA 2.4(1.4); Sao Paulo Braz 0.1(0.1); Sapporo Jap 1.1(1.1); Shizuoka Jap 1.0(1.0); Singapore 4.6(4.4); Stuttgart Ge 1.2(1.2); Taipei Tai 0.1(0.1); Tampa LP USA 2.2(2.2); Tokyo Tama Jap 2.2(2.2); Toronto Can 2.3(2.3); Twycross GB 1.1(1.1); Vienna Aus 0.1(0.1); Washington NZP USA 1.1(1.1); Yangon Myan 1.0; Yokohama Jap 1.0(1.0).

Total: 75.85(62.70) in 52 collections.

Breeding loans from Berlin ZG (at Heidelberg); Marwell (at Lympne); Milwaukee (at Memphis and Toronto); Minneapolis (at Omaha, Tampa LP and Washington NZP); Munich and Nuremberg (at Berlin ZG); NY Bronx (at Houston and Philadelphia); Philadelphia (at Cincinnati, Minneapolis and San Diego); Rotterdam (at Philadelphia); St Louis (at Denver, Milwaukee, Minneapolis and NY Bronx); San Diego (at Omaha); Shizuoka (at Sapporo); Stuttgart (at Copenhagen).

Studbook held: see List of studbooks and world registers.

*MOUNTAIN or WOOLLY TAPIR *Tapirus pinchaque* IUCN(E)

Colorado USA 2.0(2.0); Los Angeles USA 3.1(3.1); San Diego USA 1.1(1.1); Stuttgart Ge 0.1.

Total: 6.3(6.2) in 4 collections.

*INDIAN RHINOCEROS *Rhinoceros unicornis* IUCN(E)

Basle Switz 2.3(2.3); Berlin TP Ge 1.1(1.0); Berlin ZG Ge 1.1(1.0); Bhubaneswar Ind 1.1; Buffalo USA 1.0(1.0); Chester GB 1.0(1.0); Chiangmai Thai 0.1; Cincinnati USA 1.0(1.0); Cologne Ge 1.1(1.1); Dvur Kralove Czech 1.1(1.1); Fort Worth USA 1.1; Gauhati Ind 8.3(2.1); Hamburg Ge 1.1(1.1); Liberec Czech 1.0(1.0); Los Angeles USA 1.2(0.2); Mechelen Bel 1.3(1.3); Miami MZ USA 2.1(1.0); Milwaukee USA 1.0(1.0); Munich Ge 1.2(1.2); Nagoya Jap 2.2(2.1); NY Bronx USA 2.3(2.1); Nuremberg Ge 1.1(1.1); Oklahoma USA 1.1(1.1); Philadelphia USA 1.1(0.1); Rotterdam Ne 1.1(1.1); San Diego USA 2.0(2.0); San Diego WAP USA 5.6(5.6); San Francisco USA 1.1; Sao Paulo Braz 1.0(1.0); Singapore 3.0(2.0); Stuttgart Ge 1.1(1.0); Tampa LP USA 1.0; Tokyo Tama Jap 1.0; Toronto Can 1.0; Washington NZP USA 1.2(1.0); Whipnade GB 2.1(2.1); Yokohama KNP Jap 1.1(1.1).

Total: 55.43(40.28) in 37 collections.

No data 1994: Calcutta Ind 2.1(1.0).

Breeding loans from Berlin TP (at Berlin ZG); NY Bronx (at Milwaukee); Oklahoma and Toronto (at NY Bronx); Philadelphia (at Buffalo, Cincinnati and Miami MZ); San Diego (at Washington NZP); Washington NZP (at Toronto); Whipsnade (at Mechelen).

Studbook held: see List of studbooks and world registers.

***SUMATRAN RHINOCEROS** *Dicerorhinus sumatrensis* IUCN(E)

Cincinnati USA 1.1; Los Angeles USA 0.1; Lympne GB 1.1; San Diego USA 1.1.

Total: 3.4 in 4 collections.

Breeding loan from Indonesian gvt (at Cincinnati).

Studbook held: see List of studbooks and world registers.

***SOUTHERN WHITE or SQUARE-LIPPED RHINOCEROS**

Ceratotherium s. simum IUCN(V)

Total: 171.211(79.100) in 126 collections.

Breeding loans are in operation in a number of zoos.

***NORTHERN WHITE or SQUARE-LIPPED RHINOCEROS C.**

s. cottoni IUCN(E)

Baton Rouge USA 1.2; Dvur Kralove Czech 2.3(1.2); Miami MZ USA 3.3(3.1); San Diego WAP USA 2.2; Toyohashi Jap 1.2.

Total: 9.12(4.3) in 5 collections.

No data 1994: Frejus Fr 1.0; Mayaguez PR 0.1.

Studbook held: see List of studbooks and world registers.

***BLACK RHINOCEROS** *Diceros bicornis* IUCN(E)

Atlanta USA 1.1(1.1); Berlin ZG Ge 1.5(1.3); Bulawayo Zim 2.3(0.1); Chester GB 2.2(2.2); Chicago Br USA 2.2(2.1); Chicago LP USA 1.2(1.2); Cincinnati USA 2.1(1.0); Colorado USA 1.1(1.1); Columbia USA 1.1(1.1); Columbus USA 2.1(1.1); Dallas USA 1.3(0.1); Denver USA 4.2(4.2); Detroit USA 1.1(0.1); Dubbo Austral 0.6; Dvur Kralove Czech 5.9(5.7); Fort Worth USA 1.1(0.1); Frankfurt Ge 1.1; Garden City USA 1.0(1.0); Hanover Ge 1.1(1.1); Hiroshima Jap 1.3(0.2); Kuala Lumpur Mal 1.0; Lansing USA 1.0(1.0); Leipzig Ge 1.1(1.1); London ZSL GB 1.1(1.1); Los Angeles USA 2.3(1.2); Lympne GB 4.5(4.2); Magdeburg Ge 2.2(1.1); Miami MZ USA (b); Milwaukee USA 2.1(1.0); Nagoya Jap 1.0(1.0); Naples It 1.1; Oklahoma USA 1.0(1.0); Osaka Jap 1.1(1.1); Portland USA 1.1(1.1); Potgietersrus SA 3.1(1.0); Rome It 0.1(0.1); St Louis USA 1.2(0.2); San Antonio USA 1.2(0.2); San Diego USA 4.2(3.1); San Diego WAP USA 4.1(3.0); San Francisco USA 1.1(1.0); Taipei Tai 1.2(1.2); Tallin Est 1.1; Tampa USA 2.1(2.1); Tyler USA 2.2(2.2); Whipsnade GB 1.1(1.1); Wichita USA 2.1(2.0); Yokohama KNP Jap 1.1; Yulee USA 0.1; Zurich Switz 1.4(1.2).

Total: 75.86(54.52) + in 50 collections.

No data 1994: Buenos Aires Arg 0.1(0.1).

Breeding loans from Boston (at Miami MZ); Chicago Br (at Columbus, Portland, San Diego WAP and Tyler); Cincinnati (at Chicago Br, Chicago LP, Garden City, Lansing, San Diego WAP and Tyler); Detroit (at St Louis and Wichita); Dvur Kralove (at Berlin ZG); Hiroshima (at Yokohama KNP); London ZSL (at Lympne); Oklahoma (at Detroit and St Louis); St Louis (at Oklahoma); San Francisco (at Chicago LP); Tampa (at Cincinnati); Wichita (at San Diego); Zimbabwe gvt (at Milwaukee).

Studbook held: see List of studbooks and world registers.

ARTIODACTYLA

***JARVAN WARTY PIG** *Sus verrucosus*

IUCN(V)†

Poznan Pol 2.2(2.2).

† Not listed on questionnaire.

***BABIRUSA** *Babyrousa babyrussa* IUCN(V)

Antwerp Bel 5.6; Bandung Indon 1.1; Barcelona Sp 1.1; Berlin ZG Ge 1.1; Cincinnati USA 1.1; Copenhagen Den 2.3; Denver USA 1.1; Frankfurt Ge 1.1; Gt Yarmouth GB 1.1; Jersey GB 4.1; Krefeld Ge 3.1; Leipzig Ge 0.1; Los Angeles USA 1.1; Lympne GB 2.2; Marwell GB 5.3; NY Bronx USA 7.9; Nuremberg Ge 1.2; Oklahoma USA 0.1; Providence USA 1.1; Rotterdam Ne 3.3; St Etienne Fr 2.2; St Louis USA 3.1; San Diego USA 1.1; San Diego WAP USA 1.1; Singapore 6.9; Stuttgart Ge 2.4; Vienna Aus 3.2; Wuppertal Ge 1.1.

Total: 60.62 in 28 collections; all are presumed captive bred.

Breeding loans from Antwerp (at Barcelona, Frankfurt, St Etienne and Wuppertal); Cincinnati (at NY Bronx and San Diego WAP); Denver (at NY Bronx); Los Angeles (at NY Bronx and St Louis); NY Bronx (at Providence); Rotterdam (at Copenhagen); St Louis (at Oklahoma and Providence); Stuttgart (at Berlin ZG, Copenhagen and Frankfurt).

Studbook held: see List of studbooks and world registers.

***PYGMY HIPPOPOTAMUS** *Choeropsis liberiensis* IUCN(V)

Aalborg Den 1.1(0.1); Adelaide Austral 0.2; Antwerp Bel 1.1; Arnhem Ne 1.1; Atina It 1.3; Bangkok Thai 1.0; Barcelona Sp 2.1(1.1); Baton Rouge USA 0.2; Berlin TP Ge 1.3(0.2); Berlin ZG Ge 1.2; Boston USA 1.1; Bratislava Slovakia 1.2(0.1); Bristol GB 1.1; Brownsville USA 2.3(1.2); Chicago Br USA 0.2; Chicago LP USA 2.3; Cleveland USA 1.1(0.1); Colombo SL (b); Debrecen Hun 0.1(0.0); Duisburg Ge 2.2(1.0); Dvur Kralove Czech 2.4; Edinburgh GB 1.2; Gdansk Pol 1.2; Halle Ge 1.2; Hanover Ge 0.1(0.0); Hilo USA 0.1; Hohenhagen Ge 1.1; Hoyerswerda Ge 1.2; Jackson USA 1.1; Jihlava Czech (b); Johannesburg SA 1.2; Kaliningrad Rus 1.0; Kaunas Lith 1.1; Krefeld Ge 1.1; Kuala Lumpur Mal 1.2; Leipzig Ge 1.2; Lichtenburg SA 1.3; Lisbon Port 1.1; Madras Ind 2.0; Marwell GB 1.1; Melbourne Austral 1.2; Miami MZ USA 1.2; Morelia Mex 0.1; Munster Ge 1.2; Nagoya Jap 1.1; Nuremberg Ge 0.1; Olomouc Czech 1.2(0.1); Omaha USA 1.1; Opole Pol 1.1; Paris PZ Fr 1.2(1.1); Potgietersrus SA 2.2; Poznan Pol 2.4(1.4); Prague Czech 1.1; Pretoria SA 1.1; Rome It