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HARTMANN'S MOUNTAIN ZEBRAEquus zebra hartmannae* IUCN(V)

Amsterdam Ne 2.2; Berlin TP Ge 1.2; Catskill USA 0.1; Chiba Jap 1.2; Dvur Kralove Cz 6.10(6.9); Kawasaki Jap 1.2; Kings Mills USA 1.0; Lisbon Port 1.0; Litchfield Park USA 1.0; London ZSL GB 2.3; Madison USA 1.3; Mallorca Sp 1.6; Marwell GB 2.13; Munich Ge 3.7(2.7); Paris PZ Fr 1.3; Portland USA 1.4; Prague Cz 1.2; Pretoria SA 1.1(1.0); Pretoria PGBC SA 0.4; San Diego USA 0.1; San Diego WAP USA 3.9; Santo Domingo Dom 0.3(0.0); Taipei Tai 3.2; Tunis Tunisia 1.0; Usti Cz 6.10(6.7).

Total: 40.90 in 25 collections; most are presumed captive bred—see Key 6.

Breeding loan from San Diego (at Portland).

Studbook held: see List of studbooks and world registers.

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

Belize 0.1; Columbia USA 1.1(0.1); Columbus USA 1.1(1.1); Los Angeles USA 2.1(2.1); Miami MZ USA 5.2(5.2); Norfolk USA 1.1(1.1); San Diego USA 2.4; Santa Barbara USA 1.1(1.1); Tuxtla Mex 0.1; Yokohama KNP Jap 2.1(2.1).

Total: 15.14(12.8) in 10 collections.

Breeding loans from Los Angeles (at San Diego and Santa Barbara); San Diego (at Miami MZ and Santa Barbara).

Studbook held: see List of studbooks and world registers.

***MALAYAN TAPIR *Tapirus indicus* IUCN(E)**

Aalborg Den 1.0; Amsterdam Ne 2.2(0.1); Antwerp Bel 1.1(1.0); Bangkok Safari Thai 2.2; Berlin ZG Ge 1.1; Chiangmai Thai 1.2; Cincinnati USA 1.2(1.2); Columbus USA 0.1(0.1); Copenhagen Den 1.2(1.2); Denver USA 1.1(1.1); Dortmund Ge 1.2(1.1); Dresden Ge 1.1(1.1); Fukuoka Jap 1.1(1.1); Heidelberg Ge 1.1(1.1); Katowice Pol 1.0; Kuala Lumpur Mal 4.3(3.1); Lympne GB 1.4(1.2); Marwell GB 0.1(0.1); Memphis USA 1.2(1.2); Miami MZ USA 3.1(2.1); Milwaukee USA 2.1(2.1); Minneapolis USA 1.2(1.2); Mulhouse Fr 2.2(2.2); Munich Ge 1.2(1.1); Nagoya Jap 1.1(1.1); NY Bronx USA 3.5(2.4); Nuremberg Ge 1.2(1.2); Oklahoma USA 1.1(1.1); Omaha USA 0.2(0.2); Ostrava Cz 1.0; Philadelphia USA 1.1(1.1); Prague Cz 1.0(1.0); Pretoria SA 2.2(2.2); Rotterdam Ne 1.3(1.2); St Louis USA 2.2(1.2); San Diego USA 2.3; Sapporo Jap 1.1(1.1); Shizuoka Jap 3.3(2.3); Singapore 2.4(2.4); Stuttgart Ge 1.2(1.2); Taipei Tai 0.1(0.1); Tampa LP USA 1.1(1.1); Tokyo Tama Jap 2.1(2.1); Toronto Can 2.2(2.1); Twycross GB 1.1(1.1); Vienna Aus 1.0(0.1); Washington NRP USA 1.1(1.1).

Total: 62.77(45.58) in 47 collections.

Breeding loans from Los Angeles (at San Diego); Milwaukee (at Toronto); Minneapolis (at Washington NRP); NY Bronx and Rotterdam (at Philadelphia); Ostrava (at Amsterdam); Philadelphia (at Cincinnati); Minneapolis and San Diego; St Louis (at Denver, Milwaukee and NY Bronx); Shizuoka (at Sapporo); Stuttgart (at Copenhagen); Toronto (at NY Bronx).

Studbook held: see List of studbooks and world registers.

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

Los Angeles USA 2.2(1.2); San Diego USA 2.1; Stuttgart Ge 1.1.

Total: 5.4(1.2) in 3 collections.

***INDIAN RHINOCEROS *Rhinoceros unicornis* IUCN(E)**

Basle Switz 2.3(2.3); Berlin TP Ge 2.1(1.0); Berlin ZG Ge 1.2(1.1); Calcutta Ind 2.1(1.0); Chester GB 1.0(1.0); Chiangmai Thai 0.1; Cincinnati USA 1.0(1.0); Cologne Ge 1.1(1.1); Delhi Ind 1.0; Dvur Kralove Cz 2.1(2.1); Fort Worth USA 1.1; Hamburg Ge 1.1(1.1); Liberec Cz 1.0(1.0); Los Angeles USA 1.2(0.2); Miami MZ USA 2.1(1.0); Munich Ge 1.2(1.1); Nagoya Jap 1.1(1.0); NY Bronx USA 3.4(3.2); Oklahoma USA 1.0(1.0); Philadelphia USA 1.1(0.1); Planckendael Bel 1.2(1.2); Rotterdam Ne 1.0(1.0); San Diego USA 2.0; San Diego WAP USA 4.5(4.5); San Francisco USA 1.1; Singapore 3.1(2.0); Stuttgart Ge 1.1(1.1); Tampa LP USA 1.0(1.0); Tokyo Tama Jap 1.1; Toronto Can 1.1(1.1); Washington NRP USA 1.2(1.0); Whipsnade GB 2.1(2.1); Yokohama KNP Jap 1.1(1.1).

Total: 46.39(34.24) in 33 collections.

Breeding loans from Amsterdam (at Whipsnade); Oklahoma and Toronto (at NY Bronx); Philadelphia (at Cincinnati and Miami MZ); San Diego (at Tampa LP and Washington NRP); Washington NRP (at Toronto); Whipsnade (at Planckendael).

Studbook held: see List of studbooks and world registers.

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

Cincinnati USA 0.1; Lympne GB 1.1; Melaka Mal 1.7(0.1); NY Bronx USA 0.1; Nuremberg Ge 1.0(1.0); San Diego USA 0.1.

Total: 3.11(1.1) in 6 collections.

Breeding loans from Indonesian Gvt (at Lympne, NY Bronx and San Diego).

Studbook held: see List of studbooks and world registers.

SOUTHERN WHITE or SQUARE-LIPPED RHINOCEROS *Ceratotherium s. sinum*

Total: 164.208.1(79.86.1) in 128 collections.

***NORTHERN WHITE or SQUARE-LIPPED RHINOCEROS *C. s. cottoni* IUCN(E)**

Dvur Kralove Cz 2.5(1.3); Litchfield Park USA 1.0(1.0); Monroe USA 1.1; Montevideo PPR Urug 1.1(1.1); Rabat Moroc 1.1(2.1); San Diego WAP USA 2.2.

Total: 8.10(5.5) in 6 collections.

Studbook held: see List of studbooks and world registers.

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

Atlanta USA 1.1(1.1); Berlin ZG Ge 3.5(2.2); Chester GB 1.1(1.1); Chicago Br USA 2.2(2.1);

Chicago LP USA 1.2(1.2); Cincinnati USA 1.2(0.1); Colombo SL 0.1; Colorado USA 1.1(1.1); Columbus USA 1.2(1.1); Dallas USA 1.4(0.1); Delhi Ind 1.2(0.1); Denver USA 3.3(3.3); Detroit USA 1.1(0.1); Dvur Kralove Cz 3.7(3.5); Fort Worth USA 2.1; Frankfurt Ge 2.1(1.0); Garden City USA 1.0(1.0); Hiroshima Jap 2.2(1.1); Kuala Lumpur Mal 1.0; Lisbon Port 0.1; London ZSL GB 2.2(2.1); Los Angeles USA 2.4(1.2); Lympe GB 5.5(4.2); Magdeburg Ge 2.2(1.1); Mexico Mex 1.1; Miami MZ USA 3.3(3.1); Milwaukee USA 2.2(1.1); Nagoya Jap 1.2(1.2); Naples It 1.1; Oklahoma USA 0.1(0.1); Osaka Jap 1.1(1.1); Portland USA 1.1(1.1); Pretoria PGBC SA 1.1; Rome It 0.1(0.1); St Louis USA 1.2(0.1); San Antonio USA 1.2(0.2); San Diego USA 2.3; San Diego WAP USA 4.2(4.1); San Francisco USA 1.1; Sao Leopoldo Braz 0.1(0.1); Sydney Austral 0.2(0.1); Taipei Tai 1.2(1.2); Tallin Est 1.1; Tampa USA 1.1(1.1); Tyler USA 2.1(2.1); Wichita USA 1.1(1.0); Zurich Switz 2.4(2.2).
Total: 67.89(44.48) in 47 collections.

Breeding loans from Chicago Br (at Columbus, Portland, San Diego WAP and Tyler); Cincinnati (at Chicago Br, Chicago LP, Columbus, Michigan and Tyler); Detroit (at St Louis and Wichita); Frankfurt (at Zurich); Leipzig and Sydney (at Berlin ZG); Los Angeles (at Milwaukee); Oklahoma (at Detroit and Tampa); Perth (at Sydney); San Diego and San Diego WAP (at Columbus); San Francisco (at Colorado and Milwaukee); Stoneham (at Miami MZ); Tampa (at Cincinnati); Wichita and Zimbabwe (at San Diego); Zurich (at Frankfurt and Tallin).

Studbook held: see List of studbooks and world registers.

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*BABIRUSA *Babyrousa babyrousa* IUCN(V)
Antwerp Bel 7.8; Berlin ZG Ge 2.3; Cincinnati USA 1.3; Copenhagen Den 1.1; Frankfurt Ge 1.1; Jersey GB 3.3; Krefeld Ge 1.0; Leipzig Ge 1.1; Los Angeles USA 2.3; Lympe GB 2.1; NY Bronx USA 4.5; Nuremberg Ge 2.1; Rotterdam Ne 3.3; St Louis USA 1.0; San Diego USA 1.1; Stuttgart Ge 4.5.
Total: 36.39 in 16 collections; all are presumed captive bred.

No data 1991: Bandung Indon; Jakarta Indon.

Breeding loans from Antwerp (at San Diego); Los Angeles (at NY Bronx); Lympe (at Antwerp); Rotterdam (at Copenhagen); St Louis (at Los Angeles); 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 1.2(1.2); Antwerp Bel 1.1(1.1); Arnhem Ne 2.3(1.1); Atina It (b); Bangkok Safari Thai 1.3; Barcelona Sp 2.2(1.1); Basle Switz 1.4(1.4); Baton Rouge USA 1.2(1.2); Berlin TP Ge 1.4(1.4); Berlin ZG Ge 2.2(2.2); Bratislava Cz 1.2(1.2); Bristol GB 1.1(1.1); Broome Austral 2.1(2.1); Catskill USA 0.1(0.1); Chicago Br USA 0.2(0.2); Chicago LP USA 1.2(1.2); Cleveland USA 1.1(0.1); Colombo SL 2.1; Debrecen Hun 0.1; Duisburg Ge 2.3(0.1); Dvur Kralove Cz 3.4(3.4); Edinburgh GB 1.2(1.2); Halle Ge 1.1(1.1); Hanover

Ge 0.1; Havana Cuba 0.2(0.2); Hilo USA 1.2(1.2); Jackson USA 1.1(1.1); Jihlava Cz 1.1; Johannesburg SA 1.2(1.2); Kaliningrad Rus 1.1(1.1); Kaunas Lith 2.1(2.1); Krefeld Ge 1.1(1.1); Leipzig Ge 2.2(2.2); Lisbon Port 0.1; Longleat GB 0.1(0.1); Madrid Sp 1.1(1.1); Marwell GB 1.1(1.1); Melbourne Austral 1.2(1.2); Miami MZ USA 1.2(1.1); Montevideo PPR Urug 1.0(1.0); Munich Ge 1.2(1.2); Munster Ge 1.1(1.1); Nagoya Jap 2.1(2.1); NY Bronx USA 1.2(1.1); Olomouc Cz 1.1(1.1); Paris PZ Fr 1.2(1.1); Prague Cz 1.3(0.2); Pretoria SA 2.3(2.3); Pretoria LGBC SA 1.2.2(1.2.2); Pretoria PGBC SA 1.2(1.2); Rome It 1.2(1.1); Rostov Rus 1.1(1.1); Rotterdam Ne 1.2(1.2); St Louis USA 1.1(1.1); Salt Lake USA 1.1(1.1); San Antonio USA 0.2(0.2); San Diego USA 2.2; San Diego WAP USA 0.2(0.2); San Francisco USA 1.0(1.0); San Jose USA 0.1(0.1); Singapore 2.2(2.2); Stoneham USA 1.1(1.1); Stuttgart Ge 1.1(1.1); Sydney Austral 1.2(1.2); Taipei Tai 2.3(2.3); Tallin Est 1.1(1.1); Tashkent Uzbek 0.1(0.1); Tokyo Ueno Jap 1.1(0.1); Toronto Can 2.1(2.1); Tucson RP USA 1.1(0.1); Tunis Tunisia 1.1(1.1); Usti Cz 2.2(2.2); Washington NZP USA 1.3(1.3); Whipsnade GB 2.3(2.3); Wroclaw Pol 1.1(1.1); Zurich Switz 1.2(1.1).

Total: 83.127.2(68.106.2) + in 77 collections.

Breeding loans from Barcelona and Edinburgh (at Whipsnade); Catskill (at NY Bronx); Chicago Br (at San Diego WAP); Honolulu (at Hilo); NY Bronx (at Catskill); St Louis (at San Jose); Zurich (at Chicago Br).

Studbook held: see List of studbooks and world registers.

*VICUGNA *Lama vicugna* IUCN(V)

Amsterdam Ne 1.2; Antwerp Bel 2.1; Berlin TP Ge 2.1; Berlin ZG Ge 3.2; Chiba Jap 1.0; Cologne Ge 2.0; Frankfurt Ge 2.2; Halle Ge 1.1; Hanover Ge 2.2; Lima Peru (b); London ZSL GB 2.2; Marwell GB 2.1; Munich Ge 1.2; Nagoya Jap 1.1; Paris Men Fr 1.0; Planckendael Bel 2.3(2.2); Pretoria SA 1.0; Santiago Chile 1.2; Stuttgart Ge 3.4; Szeged Hun 2.0; Thetford GB 1.0; Winnipeg Can 1.0; Yokohama KNP Jap 1.1; Zurich Switz 7.13.
Total: 42.40 + in 24 collections; most are presumed captive bred—see Key 6.

Breeding loans from Amsterdam, Hanover and Zurich (at Berlin ZG); Antwerp (at Amsterdam); Berlin TP (at Antwerp); Berlin ZG (at Stuttgart); Frankfurt (at Cologne); London ZSL (at Thetford); Zurich (at Amsterdam, Antwerp, Cologne, London ZSL, Marwell, Planckendael and Stuttgart).

Studbook held: see List of studbooks and world registers.

LESSER MALAY CHEVROTAIN *Tragulus javanicus*

Aalborg Den 2.1; Amsterdam Ne 5.6; Antwerp Bel 0.1; Arnhem Ne 2.2; Bangkok Safari Thai 1.1.3(3); Berne Switz 5.4; Chonburi Thai 4.7(2.4); Copenhagen Den 1.1; Frankfurt Ge 1.3.1; Kuala Lumpur Mal 7.10.2(7.9.2); Rotterdam Ne 2.2.2; Stuttgart Ge 1.2; Zurich Switz 5.2.
Total: 36.42.8 in 13 collections; most are presumed captive bred—see Key 6.