

International Zoo Yearbook

volume 36

EDITED BY

P. J. S. OLNEY
FIONA A. FISKEN

6449

ASSISTANT EDITOR LINDA J. DAVOLLS



PUBLISHED BY THE ZOOLOGICAL SOCIETY OF LONDON 1998

1.2(0.1); St Louis USA 0.1; St Petersburg Rus (1.0); San Diego WAP USA 2.1; Sigean Fr (1.0); Stuttgart Ge 0.2; Tokyo Tama Jap 0.1; Whipsnade UK 1.1; Wichita USA 1.0; Winston USA 1.1.1. M.

1996: Aalborg Den 0.2; Amersfoort Ne (0.1); Banham UK (1); Denver USA 1.0; Detroit USA 2.0(1.0); Dvur Kralove Czech 2.3(0.1); Frankfurt Ge 0.1; Katowice Pol 0.1; Kobe Jap 0.1; Leipzig Ge 1.2(0.1); Magdeburg Ge 1.0; Marwell UK 0.3.1(1); Mechelen Bel 0.1; Miami MZ USA 1.0; Misaki Jap 0.1; Monroe USA 0.1; Mulhouse Fr 1.0; Romaneche-Thorins Fr 1.0; Royan Fr 1.0; St Louis USA 1.0; St Petersburg Rus 1.0; San Diego WAP USA 1.3(0.1); Sao Paulo Braz 1.0; Sigean Fr (0.1); Taipei Tai 0.1; Winston USA 1.0. M.

***BAIRD'S TAPIR** *Tapirus bairdii* IUCN(VU) §
1995: Los Angeles USA 0.1; Wichita USA 0.1; Yokohama KNP Jap 1.0. M.
1996: Cleveland USA (1.0)*; Columbus USA 1.0; Miami MZ USA 0.1*; Santa Barbara USA 1.0.

***MALAYAN TAPIR** *Tapirus indicus* IUCN(VU) §

1995: Belfast UK (1.0)*; Berlin ZG Ge 1.0; Dortmund Ge 1.0*; Kuala Lumpur Mal (1.0); Melaka Mal 1.0; Milwaukee USA 0.1; Mulhouse Fr 0.1; Philadelphia USA 1.0*; Pretoria SA 0.1*; St Louis USA 1.0*; Tampa LP USA 1.0.
1996: Belfast UK 0.1*; Berlin ZG Ge 1.0; Bogor Indon 1.0; Kuala Lumpur Mal 1.0; Melaka Mal 1.0; Miami MZ USA 0.1; Nurnberg Ge 0.1*; Oklahoma USA 0.1*; Omaha USA 0.1*; San Diego USA 1.1; Singapore (0.1)*.

***KIANG** *Equus kiang* IUCN(DD) §

1995: Berlin TP Ge 1.1(1.0); Oberwil Switz (0.1); Riga Lat 0.2; San Diego WAP USA 0.1. M.
1996: Berlin TP Ge 1.2; Munich Ge 2.1; Prague Czech 1.0; Riga Lat 4.1; San Diego WAP USA 1.0. M.

***SOUTH AMERICAN TAPIR** *Tapirus terrestris* IUCN(LRnt)

1995: Bangkok Thai 1.0; Barquisimeto Ven 0.1; Belo Horizonte Braz 0.1; Chessington UK (1); Chester UK 1.0; Columbus USA 0.1; Curitiba Braz (0.1); Dresden Ge 1.0; Duisburg Ge (1.0); Edinburgh UK 1.0; Garden City USA 0.1; Gdansk Pol 1.0; Hamburg Ge 1.1; Ito Jap 0.1; Jerez de la Frontera Sp 1.1(0.1); Krakow Pol 2.0(1.0); Lympe UK 0.1; Magdeburg Ge (1.0); Nagoya Jap 1.0; Nikolaev Ukr 1; Nurnberg Ge 1.0; Omaha USA 1.0; Paignton UK (1.0); Ramat Gan Is (1); Rome It 1.0; Royan Fr 1.1(0.1); Schwerin Ge 1.0; Wroclaw Pol 0.1. M.
1996: Adelaide Austral 0.1*; Arnhem Ne 0.1*; Barquisimeto Ven 0.1; Belo Horizonte Braz 0.2; Brasilia Braz (1.1); Burford UK 0.1*; Cali Col 1.0; Chessington UK (1.0); Chester UK 1.0*; Curitiba Braz 0.1; Dresden Ge 0.1*; Emmen Ne 0.1*; Fota Ire 1; Gelsenkirchen Ge (1.0); Hamburg Ge (0.1)*; Le Guerno Fr 0.1; Magdeburg Ge (1.1)*; Marwell UK 1.0*; Mysore Ind (1.0); Natal SA (0.1); Nikolaev Ukr 1; Osaka Jap 1.0*; Osnabruck Ge 1.0; Plock Pol 1.1(1.0)*; Poznan Pol 2.0*; Pretoria SA 0.1*; Ramat Gan Is 0.1; Romaneche-Thorins Fr 1.0*; Royan Fr (1.0)*; Schwerin Ge 1.0*; Singapore 1.1*; Tucson RP USA 1.0; Twycross UK (1)*.

***IRANIAN ONAGER** *Equus o. onager* IUCN(EN) §

1995: Front Royal USA 1.0; Hamburg Ge 0.1; Kessingland UK 0.1; Montpellier Fr 0.1; Oberwil Switz 0.1; Rotterdam Ne 1.0.
1996: Chester UK 1.2; Kessingland UK 0.1; Oberwil Switz 0.2; San Diego WAP USA 1.1(0.1). M.

***INDIAN WILD ASS** *E. o. khur* IUCN(EN) §
1996: Junagadh Ind 0.1*.

***KULAN or TURKMENIAN WILD ASS** *E. o. kulan* IUCN(LRnt) §

1995: Askaniya-Nova Ukr 6.6(1.1); Berlin TP Ge 0.2(0.1)*; Bojnice Slovakia 0.1.2(2); Chemnitz Ge 1.0*; Gdansk Pol 0.1; Junagadh Ind 2.0*; Kishinev Mol 1.0; Lodz Pol (0.1)*; Nikolaev Ukr 2; Rome It (0.1)*.
1996: Askaniya-Nova Ukr 2.1.6(2.1); Berlin TP Ge 2.1*; Bojnice Slovakia 0.1; Marwell UK 0.1*; Prague Czech 1.1*; Rostov Rus 0.1.

***MOUNTAIN ZEBRA** *Equus zebra* IUCN(EN)
1995: Woburn UK 1.2*.

***HARTMANN'S MOUNTAIN ZEBRA** *E. z. hartmannae* IUCN(EN) §

1995: Berlin TP Ge 1.1; Chiba Jap 1.0; Dvur Kralove Czech 3.0; Kawasaki Jap 0.2; Marwell UK 0.1; Munich Ge 3.1(0.1); Prague Czech 1.0; Usti Czech 1.2. M.
1996: Berlin TP Ge 1.1; Prague Czech (0.1); San Diego WAP USA 1.1; Usti Czech 1.3. M.

***SOUTHERN WHITE or SQUARE-LIPPED RHINOCEROS** *Ceratotherium s. simum* IUCN(LRcd) §

1995: Lichtenburg SA 0.2.1; San Diego WAP USA 0.1*.
1996: Edinburgh UK (0.1); Emmen Ne 1; Hodenhagen Ge 0.2; Lichtenburg SA 2.0; Norrkoping Swed 1.0; Ramat Gan Is 0.1; San Antonio USA 1.0; Singapore 0.1.

*BLACK RHINOCEROS *Diceros bicornis*
IUCN(CR) §

1995: Berlin ZG Ge 0.1; Chicago Br USA 1.0*; Columbia USA 1.0*; Dvur Kralove Czech (1.0); Hiroshima Jap 0.1; Lympne UK (0.1); Magdeburg Ge 0.1*; Potgietersrus SA 1.0; San Diego USA 0.1*; San Francisco USA 0.1; Tyler USA (1.0)*; Yokohama KNP Jap 0.1*.

1996: Berlin ZG Ge 1.0; Dubbo Austral 1.0; Dvur Kralove Czech 0.1*; Lympne UK 1.1; Miami MZ USA 0.1*; Milwaukee USA 0.1; Mysore Ind 0.1; Nagoya Jap 1.0*; Osaka Jap 0.1*; Yulee USA 1.0; Zurich Switz 0.1*.

*INDIAN RHINOCEROS *Rhinoceros unicornis*
IUCN(EN) §

1995: Berlin TP Ge 0.1*; Mechelen Bel 0.1; NY Bronx USA 0.1*; San Diego USA 2.0(1.0)*.
1996: Basle Switz 1.0*; Munich Ge (1.0)*; Oklahoma USA 0.1*; San Diego WAP USA 1.0; Washington NZP USA 1.1.

HYRACOIDEA

CAPE HYRAX *Procavia capensis*

1995: Buffalo USA 12(4)*; Chicago Br USA 3.3(1.3); Dubai UAE 4(2); Fort Worth USA 0.2*; Frankfurt Ge 2.1.2(2)*; Haifa Is 0.1; Hiroshima Jap 9.5.2(6.4)*; Kansas USA 2.2.4(0.1.4)*; Marwell UK 2.0.1(1.0.1); NY Bronx USA 2.0.4(4)*; NY Brooklyn USA 0.2; Nurnberg Ge (0.1); Pretoria SA 1; Providence USA 3.5; Salt Lake USA 1.0.1(1)*; San Diego USA 6.8(5.7)*; Santa Ana USA 3.2(1.0); Stockholm Swed 1.2(0.1); Tyler USA (1.0)*.

1996: Buffalo USA (5)*; Chicago Br USA 0.3*; Denver USA 0.1.2(2)*; Detroit USA 3.3(1.0)*; Hiroshima Jap 11.7(6.4)*; Kansas USA (7)*; Kobe Jap 0.1.2(0.1); Kyoto Jap 1.2.2(2); NY Brooklyn USA 1.1*; Palm Desert USA 8.3.1(3.2.1)*; Paris PZ Fr 2; Pittsburgh USA 3.1.1(2.0.1); Providence USA 5.4.3(1.1.3); Salt Lake USA 0.1*; San Diego USA 6.5(2.0); Santa Ana USA (2.4)*; Tel Aviv Is 12(7); Tokyo Ueno Jap (1.0)*; Tyler USA 1.0; Vienna Aus 4*.

TUBULIDENTATA

AARDVARK *Orycteropus afer*

1995: Arnhem Ne 0.2(0.1); Chicago Br USA 0.1; Philadelphia USA 1*; Prague Czech 0.1.
1996: Chicago Br USA (1.0); San Antonio USA (1); Shizuoka Jap (0.1).

ARTIODACTYLA

*BABIRUSA *Babryrousa babyrussa* IUCN(VU) §

1995: Jakarta Indon 1.1.4; Lympne UK (1); Madrid Sp (2.0); Marwell UK (2.0); Providence USA 0.1; Rotterdam Ne (2.0.2); St Etienne Fr (0.1). M.
1996: Berlin ZG Ge 1.0; Copenhagen Den 1.1; Los Angeles USA (1.0); Lympne UK 2.0; Madrid Sp 0.1;

New Orleans USA 1.1; Oklahoma USA 0.1; Rotterdam Ne (1.3); St Etienne Fr (1.0); Singapore 5.5(0.1); Tampa LP USA 2.0; Twycross UK 0.1; Vienna Aus 1.0. M.

WART HOG *Phacochoerus aethiopicus*

1995: Denver USA 1.1*; Honolulu USA (3.2); Lichtenburg SA 12*; Little Rock USA 2.2(2.0)*; Miami MZ USA 2.1*; Pretoria SA 1.1.6; Warsaw Pol 3.4*.
1996: Bloemfontein SA 0.1*; Chicago Br USA 2.2*; Honolulu USA 1.1.4(4)*; Lichtenburg SA 12; Miami MZ USA 1.6(0.2)*; Potgietersrus SA 20; Pretoria SA 2.3(1.0); Toronto Can 2.0.2(2)*.

SENEGAL WART HOG *Phacochoerus africanus*

1995: Philadelphia USA 5.2(3.2)*.
1996: Denver USA 1.3(1.0)*.

BUSH PIG or RED RIVER HOG *Potamochoerus porcus*

1995: Bissau Guinea-Bissau 1.1(0.1)*; Duisburg Ge 3.5(0.2)*; Los Angeles USA (2.2.1); San Diego USA 1.1*.
1996: Duisburg Ge 2.5.2(2)*; San Diego USA 2.5(1.2); Wuppertal Ge 3.2.

BEARDED PIG *Sus barbatus* §

1995: Berlin ZG Ge (2.3)*; Tunis Tunisia 1.0.
1996: Berlin ZG Ge 20(10)*; Kuala Lumpur Mal (6); Singapore 7.8.12(12)*; Tunis Tunisia 3.6.

WILD BOAR *Sus scrofa*

1995 Total bred: 75.70.101(8.6.39) in 29 collections. M.
1996 Total bred: 91.101.127(7.19.30) in 38 collections. M.

INDIAN WILD BOAR *S. s. cristatus*

1995: Bombay Ind 5.4(1.1).

JAPANESE WILD BOAR *S. s. leucomystax*

1995: Toyohashi Jap 0.4(0.2).
1996: Amagiugashima Jap 10.15; Kagoshima Jap 0.3.8(0.3.4)*; Tokyo Tama Jap 7.2.4(4)*.

*CHACO PECCARY *Catagonus wagneri*
IUCN(EN)

1996: Phoenix USA (1.4.5)*.

COLLARED PECCARY *Pecari tajacu*

1995: Adelaide Austral 4.1.1(1); Arnhem Ne 5.5.3(0.1.3); Brasilia Braz (3); Cali Col 1.1; Chesington UK 3(2); Curitiba Braz 5; Glasgow UK 2.2(2.0); Ito Jap (4); Jerez de la Frontera Sp 0.2; Kaunas Lith 0.2; Kingston Jam 5(2); Lisbon Port 3.2; Lodz Pol 5.3.7(4); Magdeburg Ge 7.6(2.2); Mar-