

Vf B+S-FA15-D1 #6

THE INTERNATIONAL ZOO YEARBOOK

VOLUME VI

Edited by
Caroline Jarvis

Assisted by
Ruth Biegler

939

Yearbook Advisory Committee

Professor E. J. W. Barrington, DSC

Professor F. Bourlière, MD, LSC

William G. Conway

The Earl of Cranbrook, MA, TREAS. LS

Francis C. Fraser, CBE, DSC

R. E. Glover, DSC, FRCVS

Sir Allen Lane, MA, LLD

W. Lane-Petter, MA, MB, BCHIR

W. K. Van den bergh



published by
THE ZOOLOGICAL SOCIETY OF LONDON

RIJKSUNIVERSITEIT TE UTRECHT



2132 1447

GB 1/1 (1/0); Cairo UAR 2/5 (1/4); Calgary Can 1/1; Catskill USA 2/3 (2/1); Chessington GB 1/1; Chester GB 3/6 (4); Chicago Brookfield USA 1/3; Chicago LPZ USA 1/2 (1/2); Cleveland USA 1/2 (1/2); Cologne Ge 3/2; Columbus USA 1/2 (1/2); Copenhagen Den 0/5 (0/3); Dallas USA 1/3 (1/1); Denver USA 1/2 (0/1); Detroit USA 1/6 (0/2); Dortmund Ge 3/2 (2/0); Dresden Ge 2/3 (1/2); Dublin Ire 1/2; Dudley GB 1/2 (1/2); East London SA 0/1; Edinburgh GB 2/2 (1/0); Edmonton Alb Game Farm Can 1/2; Elizabethville Congo 0/1 (0/1); Erie USA 1/1; Evansville USA 1/1; Fort Worth USA 2/1 (2/1); Fresno USA 1/1 (1/0); Gelsenkirchen Ge 1/2; Glasgow GB 0/2; Granby Can 2; Halle Ge 2/2 (1/1); Hanover Ge 1/4 (0/1); Helsinki Fin 1/1; Honolulu USA 3/4 (4); Houston USA 0/1; Jacksonville USA 1/2 (1/1); Jerusalem Is 1/1; Kagoshima Jap 1/1; Katowice Pol 0/1 (0/1); Kaunas USSR 0/1; Kirby Misperton GB 1/1; Kitakyushu Jap 1/0; Kronberg Ge 2/5 (1/3); Kyoto Jap 1/0; Lesna Cz 1/1 (1/1); Liberec Cz 2/2; Lodz Pol 1/2 (1/2); London GB 1/3; Lyons Fr 1/0; Los Angeles USA 1/0; Madison USA 1/2 (1); Magdeburg Ge 1/1; Manchester GB 1/3; Mexico City Mex 4/5 (2/2); Miami Crandon Pk USA 0/1; Michigan USA 0/1; Milan It 1/1; Milwaukee USA 2/5; Moscow USSR 1/0; Mulhouse Fr 1/1 (1/1); Munich Ge 1/4 (1/4); Munster Ge 1/3; Mwanza Tan 8; Mysore Ind 1/0; Nagoya Jap 1/2; Naples It 1/4 (0/2); New Orleans USA 1/1; NY Bronx USA 1/1 (0/1); Nishinomiya Jap 1/1 (1/1); Nuremberg Ge 1/3 (0/3); Oklahama USA 0/2; Osnabruck Ge 1/1; Paris PZ Fr 2/3 (2/2); Philadelphia USA 1/1; Phoenix USA 2/1 (2/0); Pittsburgh USA 1/1 (0/1); Pretoria SA 2/4 (1/1); Racine USA 1/0; Rhenen Ne 2/3 (0/1); Rio de Janeiro Arg 2/1; Rome It 1/0; Rostock Ge 1/1 (1/1); St Paul USA 1/2 (1); Sacramento USA 1/1; Salt Lake City USA 1/2; San Francisco USA 1/1; Stuttgart Ge 1/4 (0/3); Syracuse USA 0/1; Tampa USA 6/18 (5/8); Teheran Iran 1; Tel Aviv Is 4/4 (4/4); Tokuyama Jap 1/2 (1/2); Tokyo Tama Jap 1/4; Toledo USA 2/1 (1/0); Turin It 0/4; Warsaw Pol 1/1; Washington NZP USA 1/4 (0/2); Wassenaar Ne 2/4 (2/2); Wellingborough GB 1/1 (1/0); Whipsnade GB 2/9 (2); Wrocław Pol 1/1; Wuppertal Ge 1/4 (0/4); Yokohama Jap 1/1; Zagreb Yug 1/1.
Total: 140/259 + 11 (56/99) in 117 zoos.

CHAPMAN'S ZEBRA (*Equus burchelli antiquorum*)
 Adelaide Austral 1/0 (1/0); Amersfoort Ne 2/1 (1/0); Antwerp Bel 0/3 (0/3); Borås Swed 0/1; Bristol GB 0/1; Buffalo USA 1/1 (1/0); Cairo UAR 3/1 (1/0); Cincinnati USA 1/4; Cologne Ge 1/3; Copenhagen Den 1/1; Duisburg Ge 1/5; Edmonton Alb Game Farm Can 1/1; Glasgow GB 1/0; Hamburg Ge 2/4 (2/1); Hanover Ge 1/3; Heidelberg Ge 1/1; Kaunas USSR 1/0; Krefeld Ge 0/3 (0/1); La Plata Arg 1/0; NY Bronx USA 1/0 (1/0); NY Staten Is USA 1/2; Nuremberg Ge 1/4 (0/2); Okahandja SWA 2/4; Paris PZ Fr 1/2 (1/2); Petah-Tiqva Is 1/1; Portland USA 1/1; Prague Cz 1/3 (0/2); Quebec Can 1/1 (1/1); Racine USA 0/2 (0/2); Rotterdam Ne 4/4 (6); Salzburg Austria 1/1; San Diego USA 1/0; Seattle USA 2/2 (2/1); Straubing Ge 1/0; Sydney Austral

1/1; Teheran Iran 3; Vienna Austria 2/3 (2/3); West Orange USA 1/0; Zurich Switz 1/4 (1/4).
Total: 43/68 + 3 (14/22 + 6) in 39 zoos.

GREVY'S ZEBRA (*Equus grevyi*)

Albuquerque USA 0/2; Amsterdam Ne 1/1 (1/0); Barcelona Sp 1/1; Berlin W Ge 1/1; Bristol GB 1/0; Cairo UAR 1/0; Catskill USA 1/2; Chester GB 2/2 (1); Chicago Brookfield USA 1/2; Colombo Cey 1/1; Colorado USA 1/2 (0/1); Edmonton Alb Game Farm Can 1/1; Frankfurt Ge 2/2 (1/0); Hanover Ge 1/1 (1/0); Indianapolis USA 1/0; Kobe Jap 1/1; London GB 1/1 (1/0); Manila Phil 0/1; Memphis USA 1/1; Milwaukee USA 1/3; Munich Ge 1/3 (1/3); Mwanza Tan 1/1; Mysore Ind 1/1; Naples It 1/1; NY Bronx USA 1/3; Oklahama USA 1/2; Paris PZ Fr 1/2; Pittsburgh USA 1/0; Rio de Janeiro Arg 0/1; Rotterdam Ne 1/2 (1); St Louis USA 1/2 (1/0); San Diego USA 1/1; Stuttgart Ge 1/3 (1/1); Tampa USA 2/5 (1/1); Toledo USA 2/1 (1/0); Vienna Austria 1/1; Washington NZP USA 1/2.
Total: 38/56 (9/6 + 2) in 37 zoos.

MALAYAN TAPIR (*Tapirus indicus*)

Arnhem Ne 1/1; Bandung Indon 1/0; Bangkok Thai 12; Basle Switz 2/2 (1/0); Berlin E Ge 1/2; Berlin W Ge 1/3; Chester GB 1/1; Chicago Brookfield USA 0/1; Cleveland USA 0/1; Colombo Cey 1/1; Copenhagen Den 1/1; Dallas USA 1/1 (1/0); Leipzig Ge 1/1; London GB 1/0; Mexico City Mex 0/1; Milwaukee USA 1/2; Nuremberg Ge 1/2 (0/1); Paris PZ Fr 1/1; Peking China 1/1; Philadelphia USA 1/1; Rangoon Burm 0/2; St Louis USA 1/1; San Diego USA 1/1; San Francisco USA 0/1; Seattle USA 1/1; Tokyo Tama Jap 1/1; Turin It 1/2; Twy-cross GB 1/1; Whipsnade GB 1/0.
Total: 24/33 + 12 (2/1) in 30 zoos.

*BAIRD'S TAPIR (*Tapirus bairdi*) IUCN - RARE

Chiapas Mex 2/2 (1/1); Edmonton Alb Game Farm Can 1/1; Mysore Ind 1/1; Philadelphia USA 0/1; San Diego USA 1/0; San Francisco USA 1/0.
Total: 6/5 (1/1) in 6 zoos.

*GREAT INDIAN RHINOCEROS (*Rhinoceros unicornis*) IUCN - RARE

Basle Switz 1/2 (0/2); Berlin W Ge 1/1 (1/1); Chicago Brookfield USA 1/1; Delhi Ind 1/0; Gauhati Ind 3/0; Hamburg Ge 0/1; Hyderabad Ind 1/0; Kathmandu Nepal 0/1; Lucknow Ind 1/1; Milwaukee USA 1/1 (1/1); Mysore Ind 0/1; NY Staten Is 1/0; Omaha USA 1/0; Paris PZ Fr 1/1 (1/0); Peking China 1/0; Philadelphia USA 1/1; Portland USA 1/0; Rangoon Burm 1/1; Rome It 1/0; San Diego USA 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: 23/16 (5/5) in 24 zoos.

*SUMATRAN RHINOCEROS (*Didemnoceros sumatrensis*) IUCN - RARE

Copenhagen Den 0/1.

*BLACK RHINOCEROS (*Diceros bicornis*) IUCN - RARE

Adelaide Austral 1/0; Amsterdam Ne 1/1; Antwerp Bel 0/1; Barcelona Sp 1/1; Berlin E Ge 1/1; Berlin W Ge 1/1; Bristol GB 1/2 (0/1); Buenos Aires Arg 1/2; Cairo UAR 1/1; Chester GB 1/1 (1/0); Chicago Brookfield USA 1/1; Cincinnati USA 2/1 (1/0); Cleveland USA 1/0; Colombo Cey 1/1; Colorado USA 1/0; Columbus USA 1/0; Copenhagen Den 1/0; Dallas USA 1/1; Denver USA 1/1; Detroit USA 1/0; Dresden Ge 1/0; Duluth USA 1/0 (1/0); Dublin Ire 1/1; Evansville USA 1/0; Frankfurt Ge 1/1 (0/1); Fresno USA 1/1; Gelsenkirchen 0/1; Granby Can 0/1; Hanover Ge 1/1 + 1 (1); Jacksonville USA 1/1 (1/0); Jerusalem Is 1/0; Kobe Jap 2/1 (1/0); Kolmarden Swed 1/1; Lisbon Port 1/1; Manchester GB 1/1; Manila Phil 1/0; Memphis USA 1/1; Mexico City Mex 1/1; Moscow USSR 0/1; Mwanza Tan 1/2; Mysore Ind 1/1; Nagoya Jap 0/1; Naples It 1/2; NY Bronx USA 1/0; Okahandja S.W.A. 1/0; Oklahoma USA 1/1 (1/1); Osaka Jap 0/1; Paris PZ Fr 0/1; Peking China 1/2 (0/1); Perth Austral 0/1; Philadelphia USA 1/1; Pittsburgh USA 1/1; Prague Cz 1/1; Pretoria SA 1/1; St Louis USA 1/3; San Diego USA 1/1; San Francisco USA 1/0; Sydney Austral 1/7 + 1 (5); Tokyo Ueno Jap 0/1; Toledo USA 0/1; Vienna Austria 1/0; Washington NZP USA 1/1; Whipsnade GB 1/1; Zagreb Yug 0/1; Zurich Switz 1/1 + 1; Munich Ge 1/1.
Total: 57/64 + 3 (6/4 + 6) in 66 zoos.

*WHITE RHINOCEROS (*Diceros simus*) IUCN - RARE

Antwerp Bel 1/1; 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; Edmonton Alb Game Farm Can 1/1; Hanover Ge 1/1; Johannesburg SA 1/1; Khartoum Sudan 1/2; London GB 1/1; Memphis USA 1/1; Milwaukee USA 1/2; NY Bronx USA 1/1; Oklahoma USA 1/1; Phoenix USA 1/1; Pretoria SA 1/2; Rotterdam Ne 1/1; St Louis USA 1/1; San Diego USA 1/1; San Francisco USA 1/1; Tampa USA 1/1; Washington NZP USA 1/1; Zurich Switz 1/1.
Total: 25/28 in 25 zoos.

ORDER ARTIODACTYLA

GIANT FOREST HOG (*Hylochoerus meinertzhageni*) Abidjan IC 1/0.

*PIGMY HIPPOPOTAMUS (*Choeropsis liberiensis*) IUCN - RARE

Abidjan IC 0/1; Amsterdam Ne 1/2; Antwerp Bel 1/2 (1/2); Arnhem Ne 1/1; Basle Switz 1/5 (0/4); Berlin W Ge 2/2 (2/2); Birmingham USA 0/1; Bristol GB 1/1 (1/1); Catskill USA 0/1; Chester GB 1/1; Chicago Brookfield USA 2/1 (0/1); Cincinnati USA 1/0; Cleveland USA 1/1 (1/0); Copenhagen Den 1/2 (0/1); Dallas USA 1/2; Edinburgh GB 1/1; Hanover Ge 1/2; Memphis USA 1/1; NY Bronx USA 1/3 (1/3); Paignton GB 1/1 (1/1); Paris PZ Fr 1/1 (1/0); Perth Austral 1/0; Pittsburgh USA 0/2; Prague Cz 0/1 (0/1); Pretoria SA 0/2; St Louis

USA 1/2 (2); San Diego USA 1/2; San Francisco USA 1/1 (1/1); Sydney Austral 1/1; Tokyo Ueno Jap 2/2 (1/2); Toledo USA 0/1; Washington NZP USA 2/5 (1/4); Whipsnade GB 2/3 (1/2).
Total: 31/54 (11/24 + 3) in 33 zoos.

*WILD BACTRIAN CAMEL (*Camelus bactrianus ferus*) IUCN - RARE
Peking China 1/0.

GUANACO (*Lama guanicoe*)

Adelaide Austral 2/3 (2/3); Albuquerque USA 1/1 (1/0); Alexandria UAR 1/0 (1/0); Amsterdam Ne 1/2 (1/2); Antwerp Bel 4/10 (4/9); Baltimore USA 3/13 (2/13); Barcelona Sp 1/2; Berlin E Ge 2/11 (1/10); Berlin W Ge 2/6 (2/6); Buenos Aires Arg 4/2 (4/2); Catskill USA 3/8 (3/8); Chessington GB 3/2; Chicago Brookfield USA 1/8; Chicago LPZ USA 1/3 (1/3); Cincinnati USA 1/2 (0/1); Cleveland USA 3/8 (3/8); Cologne Ge 1/2; Colombo Cey 4/2; Columbus USA 1/2 (1); Dallas USA 0/3; Dresden Ge 4/2 (4/2); Dudley GB 1/1 (1/1); Duisburg Ge 2/5 (1/3); Duluth USA 1/2 (1/2); Edinburgh GB 1/1; Edmonton Alb Game Farm Can 2/3 (1/1); Erfurt Ge 1/1; Erie USA 1/0 (1/0); Evansville USA 2/3 (2/3); Frankfurt Ge 1/2 (0/1); Frosro Swed 1/2 (1/2); Gdansk Pol 1/4 (1/4); Gelsenkirchen Ge 3/2 (2/0); Granby Can 3; Halle Ge 2/4 (1/4); Hamburg Ge 2/7 (2/7); Houston USA 1/3; Hyderabad Ind 2/1 (1/0); Jacksonville USA 1/1 (1/1); Kolmarden Swed 1/3; Krefeld Ge 4/5 (4/5); Kuala Lumpur Mal 2; Landau Ge 1/1; La Plata Arg 1/0; Leipzig Ge 1/6 (1/6); Lesna Cz 1/2 (1/2); Lisbon Port 3/6; Lodz Pol 4/4 (4/4); London GB 1/1 (1/1); Los Angeles USA 2/2 (2/2); Lyons Fr 0/1; Magdeburg Ge 1/2; Memphis USA 1/2; Mexico City Mex 4/9 (3/8); Michigan USA 2/0 (1/0); Moscow USSR 1/1; Munich Ge 1/7 (1/7); Mysore Ind 4/2 (2); Nagoya Jap 1/0; Naples It 1/0; New Orleans USA 3/2; NY Bronx USA 2/1 (2/1); Novosibirsk USSR 1/1; Osnabruck Ge 1/6; Ostrava Cz 1/0; Paris PZ Fr 1/8 (1/8); Pecs Hun 1/0 (1/0); Peking China; Perth Austral 3/1; Philadelphia USA 1/6 (1/6); Phoenix USA 1/1; Pittsburgh USA 2/4 (1/3); Plock Pol 1/2; Portland USA 2/3; Prague Cz 1/4 (1/4); Pretoria SA 1/1; Quebec Can 1/2; Racine USA 3/10 (3/10); Rangoon Burm 1/1; Rhenen Ne 3/3 (0/1); St Louis USA 0/1; San Diego USA 2/7 (2/7); Santiago Chile 2/0; South Bend USA 2/2 (2/2); Sydney Austral 0/2; Syracuse USA 1/2; Teheran Iran 2/2; Tel Aviv Is 2/2 (2/2); Toledo USA 1/2 (0/1); Twycross GB 2/1; Warsaw Pol 1/5 (0/3); Washington NZP USA 1/0; Wassenaar Ne 3/5 (2/3); West Orange USA 0/2; Whipsnade GB 2/8 + 3 (2/4 + 3); Winnipeg Can 2/4 (2/4); Wroclaw Pol 1/0; Wuppertal Ge 1/4 (0/2); Zurich Switz 2/4 (1/4).
Total: 160/296 + 8 (86/196 + 6) in 99 zoos.

VICUGNA (*Vicugna vicugna*)

Amsterdam Ne 1/1 (1/1); Antwerp Bel 6/6 (5/4); Augsburg Ge 1/0; Barcelona Sp 1/1; Berlin E Ge 1/0; Berlin W Ge 1/1 (1/1); Catskill USA 3/4 (3/4); Cologne Ge 1/0; Dresden Ge 1/0; Frankfurt Ge 2/0 (1/0); Halle Ge 1/0; Hanover Ge 1/0 (1/0); Jerez Sp