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THE INTERNATIONAL ZOO YEARBOOK

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Snow Leopard (*Panthera uncia*)

Amsterdam Ne 0/1; Arnhem Ne 1/1 + 2 (2); Berlin E. Ge 1/0; Birmingham USA 0/1; Chicago Brookfield USA 1/1; Chicago LPZ USA 2/2 (1/0); Cincinnati USA 1/0; Copenhagen Den 1/1; Edmonton Alb. Game Farm Can 1/1; Krefeld Ge 0/1; London GB 1/1; Milwaukee USA 1/1; Moscow USSR 1/1; Nagoya Jap 1/1; New York Bronx USA 1/1 (1/1); Oklahoma USA 1/1; Paris PZ Fr 0/1; Philadelphia USA 1/0; Quebec Can 0/1; Rostock Ge 1/1; Rotterdam Ne 1/1; St Louis USA 1/1 (1/1); St Paul USA 1/1; San Diego USA 1/1; San Francisco USA 1/1; Termez USSR; Toledo USA 1/1; Washington NZP USA 1/1 (0/1).
Total: 23/24 + 2 (3/3 + 2) in 27 zoos.

ORDER PINNIPEDIA

Walrus (*Odobenus rosmarus*) IUCN - RARE

Chicago Brookfield USA 0/1; Hamburg Ge 1/0; Marineland USA 2/2; Moscow USSR 0/2; New York Aqu 2/1; St Louis USA 1/0.
Total: 6/6 in 6 zoos.

Galapagos Fur Seal (*Arctocephalus australis*

galapagoensis) IUCN - RARE
 Cologne Ge 1/2.

Mediterranean Monk Seal (*Monachus*

monachus) IUCN - RARE
 Ankara Turk 1/0; Lisbon Aqu Port 0/2; Paris M Fr 0/1.
Total: 1/3 in 3 zoos.

Hawaiian Monk Seal (*Monachus*

schauinslandi) IUCN - RARE
 Honolulu Aqu USA 1/1.

Steller's Sealion (*Eumetopias jubatus*)

Nagoya Jap 1/1; New York Bronx USA 1/1; Rome It 1/1; San Diego USA 2/1; Tokyo Ueno Jap 1/0.
Total: 6/4 in 5 zoos.

Baikal Seal (*Pusa sibirica*)

Amsterdam Ne 2/1; Antwerp Bel 1/1; Kanazawa Jap 1/0; Leipzig Ge 1/0; London GB 1/1.
Total: 6/3 in 5 zoos.

Hooded Seal (*Cystophora cristata*)

Cologne Ge 1/0; Hamburg Ge 1/0; New York Aqu USA 0/1; Berlin W. Ge 1/0.
Total: 3/1 in 4 zoos.

Northern Elephant Seal (*Mirounga*

angustirostris)
 Chicago Brookfield USA 0/1; St Louis USA 1/0; San Diego USA 1/3.
Total: 2/4 in 3 zoos.

Southern Elephant Seal (*Mirounga leonina*)

Antwerp Bel 1/1; Berlin W. Ge 1/1; Cologne Ge

1/1; Duisburg Ge 1/2; Edinburgh GB 1/0; Frankfurt Ge 1/1; Gelsenkirchen Ge 1/1; Munich Ge 1/1; Paris PZ Fr 1/2; Philadelphia USA 1/0; Stuttgart Ge 1/1; Wassenaar Ne 1/0.
Total: 12/11 in 12 zoos.

ORDER SIRENIA

West African Manatee (*Trichechus*

senegalensis) IUCN - RARE
 Abidjan Iv C 3; Antwerp Bel 1/0.
Total: 1/0 + 3 in 2 zoos.

South American Manatee (*Trichechus*

inunguis) IUCN - RARE
 Fort Worth USA 1/0; Rio de Janeiro Braz 1/0; St Louis USA 2/0.
Total: 4/0 in 3 zoos.

West Indian Manatee (*Trichechus manatus*)

IUCN - RARE
 Miami Crandon Pk USA 0/1; Miami Seaquarium USA 1/1.
Total: 1/2 in 2 zoos.

Dugong (*Dugong dugon*) IUCN - RARE

Mandapam Camp Ind 1/1.

ORDER PERISSODACTYLA

Malayan Tapir (*Tapirus indicus*)

Arnhem Ne 0/1; Bandung Indon 1/0; Basle Switz 1/2; Berlin E. Ge 0/1; Berlin W. Ge 0/1; Chester GB 1/1; Chicago Brookfield USA 0/1; Cleveland USA 0/1; Dallas USA 1/1; London GB 1/0; Milwaukee USA 1/2; Nuremberg Ge 1/2 (0/1); Paris PZ Fr 1/1; Philadelphia USA 1/1; Rangoon Burm 0/1; Rome It 1/1; St Louis USA 1/1; San Diego USA 1/0; San Francisco USA 1/1; Seattle USA 1/1; Tokyo Tama Jap 1/0; Whipsnade GB 1/1.
Total: 16/21 (0/1) in 22 zoos.

Baird's Tapir (*Tapirus bairdi*) IUCN - RARE

Chiapas Mex 1/2 (0/1); Chicago LPZ USA 1/0; Garden City USA 2/1 (2/1); Kansas City USA 3 (1); Los Angeles USA 1/2 (0/1); Philadelphia USA 0/1; San Francisco USA 1/2.
Total: 6/8 + 3 (2/3 + 1) in 7 zoos.

Black Rhinoceros (*Diceros bicornis*)

IUCN - RARE
 Adelaide Austral 1/0; Amsterdam Ne 1/1; Antwerp Bel 1/1; Barcelona Sp 1/1; Berlin E. Ge 1/1; Berlin W. Ge 1/1; Bristol GB 1/2 (0/1); Buenos Aires Arg 2/2 (2); Cairo UAR 1/1; Chester GB 1/1 (1/0); Chicago Brookfield USA 1/1; Cincinnati USA 1/1; 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 1/1 (0/1); Dresden Ge 1/0; Dublin Ire 1/1 (1/1); Evansville USA 1/0; Fort Worth USA; Frankfurt Ge 1/1 (0/1); Fresno USA 1/0; Granby Can 0/1; Hanover Ge 1/1; Jacksonville USA 1/1 (1/0); Jerusalem Is 1/0; Kanazawa Jap 1/0; Kansas City USA 1/1 (1/1); Kobe Jap 2/1 (1/0); Leningrad USSR 1/0; Lisbon Port 1/1; Manchester GB 0/1; Manila Phil 1/0; Memphis USA 0/1; Mexico City Mex 1/1; Moscow USSR 0/1; Nagoya Jap 0/1; Naples It 1/2; New York Bronx USA 1/0; Oklahoma USA 1/1 (1/1); Osaka Jap 0/1; Paris PZ Fr 0/1; Peking China 1/1; Perth Austral 0/1; Philadelphia USA 1/1; Pittsburgh USA 2/1 (1/0); Prague Cz 1/1; Pretoria SA 1/1; Rio de Janeiro Braz 0/1; St Louis USA 0/2; San Antonio USA; San Diego USA 1/1; San Francisco USA 1/0; Santo Domingo Dom 1/1; Sydney Austral 8 (4); Tokyo Ueno Jap 1/1; Toledo USA 0/1; Vienna Austria 1/1; Washington NZP USA 1/1; Whipsnade GB 1/1; Zurich Switz 1/1.
Total: 53/52 + 8 (6/5 + 7) in 63 zoos.

White Rhinoceros (*Diceros simus*)

IUCN - RARE

Antwerp Bel 1/1; Berlin W. Ge 1/1; Catskill USA 1/1; Chester GB 1/1; Chicago Brookfield USA 1/1; Edmonton Alb. Game Farm Can 1/1; Hanover Ge 1/0; London GB 1/1; Milwaukee USA 1/2; New York Bronx USA 1/1; Oklahoma USA 1/1; Phoenix USA 1/1; Pretoria SA 2/3; Riyadh Saudi Arabia 0/1; Rotterdam Ne 1/1; St Louis USA 1/1; San Diego USA 1/1; San Francisco USA 1/1; Washington NZP USA 1/1; Berlin E. Ge 1/1.
Total: 20/22 in 20 zoos.

Great Indian Rhinoceros (*Rhinoceros unicornis*) IUCN - RARE

Basle Switz 2/3 (1/2); Berlin W. Ge 1/0; Bombay Ind 1/0; Calcutta Ind 1/2; Chicago Brookfield USA 1/1; Delhi Ind 1/0; Hamburg Ge 0/1; Jaipur Ind 0/1; Kathmandu Nep 1/1; Madras Ind 1/0; Milwaukee USA 1/1 (1/1); Mysore Ind 0/1; Paris PZ Fr 0/1; Philadelphia USA 1/1; Portland USA 1/0; Rangoon Burm 0/1; Rome It 1/0; San Diego USA 1/0; Tokyo Tama Jap 1/1; Trivandrum Ind 1/0; Washington NZP USA 1/1; Whipsnade GB 1/1 (1/0); Peking China.
Total: 17/17 (3/3) in 22 zoos.

Sumatran Rhinoceros (*Didermocerus sumatrensis*) IUCN - RARE

Copenhagen Den 0/1.

Przewalski's Horse (*Equus przewalski*)

IUCN - RARE

Aalborg Den 1/0 (1/0); Amsterdam Ne 1/2 (1/2); Antwerp Bel 1/3 (1/3); Askaniya Nova USSR 5/2 (5/1); Berlin E. Ge 2/1 (2/1); Berlin W. Ge 1/1 (1/1); Catskill USA 7/16 (7/16); Chicago Brookfield USA 1/1 (1/1); Copenhagen Den 1/3 (1/3); Edmonton Alb. Game Farm Can 1/1 (1/1); Erevan USSR 1 (1); Karlsruhe Ge 1/1 (1/1); La Plata Arg 1/2 (1/2); Leipzig Ge 1/1 (1/1); London GB 1/1 (1/1); Moscow

USSR 1/0 (1/0); Munich Ge 3/4 (3/4); Paris M Fr 2/1 (2/1); Prague Cz 11/20 (11/20); Rome It 2/1 (2/1); Rotterdam Ne 3/3 (3/3); Shargalantai Mon 0/1 (0/1) Washington NZP USA 1/0 (1/0); Whipsnade GB 1/3 (1/3).

Total: 50/68 (50/66) in 24 zoos.

Grevy's Zebra (*Equus grevyi*)

Albuquerque USA 1/0; Amsterdam Ne 1/1 (1/0); Askaniya Nova USSR 1/0 (1/0); Barcelona Sp 1/1 (1); Berlin W. Ge 1/1; Bristol GB 1/0; Bucharest Rum 1/0; Cairo UAR 1/0; Catskill USA 2/2; Chester GB 2/2 (1/0); Colombo Cey 1/1; Colorado USA 1/2 (0/1); Copenhagen Den 1/2; Edmonton Alb. Game Farm Can 1/1; Frankfurt Ge 2/3 (1/1); Granby Can 3; London GB 2/1 (1/0); Manila Phil 0/1; Memphis USA 1/2; Milwaukee USA 0/3; Munich Ge 1/3; Naples It 1/1; New York Bronx USA 1/2; Paris PZ Fr 2/2 (1/0); Pittsburgh USA 0/1; Rio de Janeiro Braz 0/1; Rome It 1/1 (1/1); Rotterdam Ne 0/2; St Louis USA 1/2; St Paul USA 1/2 (0/1); San Diego USA 1/1; Stuttgart Ge 1/3; Tampa USA 2/4 (2/1); Toledo USA 2/1 (1/0); Vienna Austria 1/2; Washington NZP USA 1/2.
Total: 37/53 + 3 (10/5 + 1) in 36 zoos.

Hartmann's Mountain Zebra (*Equus zebra hartmannae*)

Amsterdam Ne 1/0; Askaniya Nova USSR 1/1 (0/1); Berlin E. Ge 2/2 (1/0); Berlin W. Ge 1/4 (0/3); Bloemfontein SA 1/0; Cairo UAR 1/0; Catskill USA 7/13 (3/3); Edmonton Alb. Game Farm Can 1/1; Erfurt Ge 1/1; La Plata Arg 1/0; Lisbon Port 2/3; London GB 1/1 (1/0); Munich Ge 1/6; Okahandja SWA 2/4; Paris PZ Fr 2/2 (1/1); Philadelphia USA 2/1 (1/0); Pittsburgh USA 1/1 (1/1); Prague Cz 1/2 (1/2); Pretoria SA 0/4; Rotterdam Ne 1/1; Zurich Switz 1/2 (0/1).
Total: 31/49 (9/12) in 21 zoos.

Nubian Wild Ass (*Equus asinus africanus*)

IUCN - RARE

Berlin E. Ge 1/0 (1/0); Catskill USA 3/5 (3/5); Munich Ge 2/4; Vienna Austria 1/0 (purity uncertain).
Total: 6/9 (4/5) in 3 zoos + 1 purity uncertain.

Somali Wild Ass (*Equus asinus somalicus*)

IUCN - RARE

Catskill USA 2/4 (2/4).

Kulan or Mongolian Wild Ass (*Equus h. hemionus*) IUCN - RARE

Askaniya Nova USSR 0/2 (0/1); Leningrad USSR 1/1; Ostrava Cz 1/0 (1/0).
Total: 2/3 (1/1) in 3 zoos.

Indian Wild Ass (*Equus hemionus khur*)

IUCN - RARE

Ahmedabad Ind 1/2; Junagadh Ind 1; Munich Ge 1/1; Baroda Ind 1/1 + 1 (1).
Total: 3/4 + 2 (1) in 4 zoos.