

species of wild animals bred in captivity during 1975 and multiple generation captive births

The following lists consist of species of mammals, birds, reptiles, amphibians and fishes born or hatched as the result of matings in captivity in zoos, aquaria, bird parks, primate research centres, and a number of private collections. In each case the name of the institution that bred the species concerned is given. These institutions have been listed alphabetically under the name of the town (or nearest town) where the collection is kept. Addresses are supplied in the list of Zoos and Aquaria of the World in Vol. 16, pp. 261-329.

As well as captive births and hatchings during 1975, the lists also record those species which were born or hatched of parents *both* of which were themselves captive bred. An asterisk (*) after the name of the institution concerned denotes that one or more of the animals born there was bred in the second or subsequent captive generation. (Species known to be entirely descended from captive stock, such as Père David's deer and Przewalski's horse and domestic species have, for the sake of clarity, not been marked.) As was pointed out in the preamble to the first such survey published in Vol. 13, the shortcomings of many zoo record systems mean that information about multiple generation births is necessarily incomplete; this is reflected particularly in cases where the parents of a zoo-bred animal were bred elsewhere in captivity. Altogether 214 institutions responded to this part of the breeding survey, about 47% of the total number which supplied breeding data.

To keep the lists to a reasonable length, full details of a number of the more commonly bred species have been omitted. Where this has been done, the total number bred during the year is given; further information may be obtained from the *Yearbook* office. The list of fishes is confined to those species that are seldom hatched in aquaria. Domestic species have, with a few doubtful exceptions, been excluded.

As in previous volumes of the *Yearbook*, an attempt has been made to standardise and bring up to date the scientific and popular names of animals mentioned. For a list of the works of reference consulted, see pp. 376.

KEY TO BREEDING LISTS

1. Where the number of animals bred by a zoo is known, this has been indicated after the name of the

zoo. In order to save space, sex is denoted as follows: one ♂ 1/0; one ♀ 0/1; one animal of unknown sex 1. If a zoo has bred one ♂, one ♀ and one animal of unknown sex, this is shown as 1/1/1.

2. Figures in brackets represent the number of animals that failed to survive: e.g. 2/1(1/1) means that of a total of two ♂♂ and one ♀ of the species born, one ♂ and one ♀ did not survive. However, it must be emphasised that not all zoos indicated whether the animals survived or not, and that some zoos record only young that have been successfully reared.

3. If the number of animals bred is unknown and they all died, this is expressed as (d). If the number is known and they all died, it is shown, for example, as (1/1).

4. Regional Primate Research Centres in the United States are given the abbreviation RPRC. The abbreviation *priv.* indicates that the animals were bred in a private collection.

5. Species of animals that are on the IUCN (International Union for Conservation of Nature and Natural Resources) lists as being rare, or presumed rare, in the wild, have been printed as follows:

*RED-CHEEKED IBIS *Geronticus eremita* IUCN
RARE

Mammal, reptile and amphibian species under threat have been further classified according to the categories (E), (V), (R), and (I) designated in the latest editions of *Mammalia* and *Amphibia & Reptilia* (see p. 376).

6. Other species not on the IUCN lists but listed in the current *Yearbook* Census of Rare Animals in captivity (pp. 335-371) are shown thus:

RUFFED LEMUR *Lemur variegatus* RARE

7. Hybrid births are listed irrespective of the direction of the cross, except where the zoo concerned has supplied precise information.

COMMON or HARBOUR SEAL *Phoca vitulina*

Amsterdam Ne 0/1; Berlin W Ge (1/0); Denver USA (1/0); Fujisawa Jap 1/0/1(1); Orlando USA (1); Vancouver Can 2(1).

CASPIAN SEAL *Pusa caspica*

Batumi USSR (1).

GREY SEAL *Halichoerus grypus*

Aberdeen GB (0/2); Katowice Pol (1/0); Louisville USA (0/1); Paris PZ Fr (1/0); San Francisco USA (1); Stockholm Swed (1/0); Warsaw Pol 0/2.

SOUTHERN ELEPHANT SEAL *Mirounga leonina* RARE

Antwerp Bel (1); Hanover Ge (0/1).

TUBULIDENTATA

AARDVARK *Oryzteropus afer*

Amsterdam Ne 0/1; Duisburg Ge (1/0); Miami CP USA (1); San Antonio USA (1); San Diego USA (1/0); Tacoma USA 0/1.

PROBOSCIDEA

*ASIAN ELEPHANT *Elephas maximus* IUCN (v)
Copenhagen Den 0/1; Los Angeles USA (1/0)*;
Mysore Ind 0/1; Portland USA 1/0*.

HYRACOIDEA

CAPE HYRAX *Procavia capensis*

Chicago LP USA 2; Cleveland USA (1); Columbia USA 6; Emmen Ne (4); Fort Worth USA 1/0; Houston USA 2; Lincoln USA 2/0; Montgomery USA 2; Pretoria SA 7; St Louis USA 2/0; Stuttgart Ge 3/1(0/1); Toronto Can 8(7).

SYRIAN HYRAX *P. c. syriaca*

Kansas USA (0/1); Milwaukee USA 2.

TREE HYRAX *Dendrohyrax arboreus*

Twycross GB 0/1.

SIRENIA

*NORTH AMERICAN MANATEE

Trichechus manatus IUCN (v)
Miami Seag USA 0/1.

PERISSODACTYLA

PRZEWALSKI'S HORSE *Equus przewalskii*

IUCN (E)†

Askaniya-Nova USSR 2/2; Bekebourne GB 2/1(1/0); Berlin E Ge 0/1; Catskill USA 1/1; Cologne Ge 1/1; Leipzig Ge 0/1; London ZSL GB 1/0; Marwell GB 2/3; Montpellier Fr (0/1); Munich Ge 2/0; NY Bronx USA 1/1; Nuremberg Ge 2/0; Paris M Fr 1/1; Prague Cz 2/2(1/0); San Diego WAP USA 2/1(1/0); Whipsnade GB 1/0.

† all births are from captive-born parents.

*PERSIAN ONAGER *Equus hemionus onager*

IUCN (v)

Antwerp Bel 1/0; Catskill USA 3/0*; Cologne Ge 1/0; Colorado USA (1/0); Dallas USA (1/1); Eilat Hai-Bar Is 3/1; Hamburg Ge 1/2*; Krefeld Ge 1/1*; Los Angeles USA 0/1*; Philadelphia USA 1/0*; Rotterdam Ne (2); Teheran Iran (1/0); Washington NZP USA (1/0)*; Whipsnade GB 1/1*.

*KULAN or TURKMENIAN WILD ASS

E. h. kulan IUCN (v)

Antwerp Bel 0/1; Askaniya-Nova USSR 6/3(1/0); Berlin E Ge 0/2; Berlin W Ge 1/1; Edmonton AGF Can 1/0; Erfurt Ge (1/0); Helsinki Fin (0/1); Kharkov USSR 1/0; Leningrad USSR 2/1(1/0); London ZSL GB (0/1); Munich Ge 0/1*; Nuremberg Ge 0/2(1); Prague Cz 1/1; Rheine Ge 0/1*; Rostock Ge 0/2*; Wroclaw Pol 2/0.

*KIANG *E. h. kiang* IUCN (v)

Peking China 3; Riga USSR 3/1(1/1).

*INDIAN WILD ASS *E. h. khur* IUCN (E)

Delhi Ind (0/1).

*AFRICAN WILD ASS *Equus asinus ssp*

IUCN (E)

Catskill USA 0/1*.

*SOMALI WILD ASS *E. a. somalicus* IUCN (E)

Basle Switz 1/0; Eilat Hai-Bar Is 2/1.

*HARTMANN'S MOUNTAIN ZEBRA

Equus zebra hartmannae IUCN (v)

Berlin E Ge 0/1; Berlin W Ge 0/1; Bojnice Cz 1/0; Dvur Kralove Cz (1/2); Laguna Hills LCS USA 1/0*; Los Angeles USA 2/0(1); Munich Ge 0/1*; Oklahoma USA 1/0; Okahandja SWA 3/3; Paris PZ Fr 1/1; Philadelphia USA 1/0*; San Diego WAP USA 1/2(1/1)*; Whipsnade GB 1/2*; Winnipeg Can 1/2; Zurich Switz 1/0.

GRANT'S ZEBRA *Equus burchelli boehmi*

Total bred: 85/79/30(19/13/4) in 93 collections.

CHAPMAN'S ZEBRA *E. b. chapmani*

Askaniya-Nova USSR 2/1; Berlin E Ge 1/0; Dvur Kralove Cz 4/2(1/0); Halle Ge 1/0; Hamburg Ge 0/1; Kansas USA 1/2/1; Kings Mills USA 1/1; Liberec Cz 0/1; Marwell GB 3/0; Milwaukee USA 0/1; Montpellier Fr (2); Neuwied Ge 2/1*; Rotterdam Ne 1/0; San Antonio USA 2/0; Thoiry Fr 0/1; Zurich Switz 2/1*.

DAMARA ZEBRA *E. b. antiquorum*

Augsburg Ge 1/2; Berlin E Ge 0/1; Berlin W Ge 3/0(1/0/1); Blackpool GB 1/1(0/1); Bristol GB 0/1; Buffalo USA (1/0); Catskill USA 0/1; Doswell USA 0/1; Dresden Ge 1/0; Duisburg Ge 2/5*; Dvur Kralove Cz 3/3; Hanover Ge 1/0; Krefeld Ge 1/0; Okahandja SWA 2/4; Prague Cz 1/3(0/1); Toronto Can 0/1; W Orange USA 0/1.

MANELESS ZEBRA *E. burchelli* ssp

Dvur Kralove Cz 6/4(0/1).

GREVY'S ZEBRA *Equus grevyi*

Berlin W Ge (1); Brownsville USA (0/1); Catskill USA 1/0; Chester GB (1); Colorado USA 1/1; Dvur Kralove Cz 4/4(1/0); Frankfurt Ge 0/2; Hamburg Ge 1/2(1/0); La Palmyre Fr 1/0; Leipzig Ge (1); Marwell GB 1/0; Monroe USA (1/0); Nanyuki Ken 3/4; NY Bronx USA 1/1(0/1)*; Paris PZ Fr (1/0); St Louis USA 0/2; St Paul USA 1/0; San Diego USA 1/0; San Diego WAP USA 5/4; Stuttgart Ge 2/0*; Tampa USA 4.

ZEBRA/HORSE HYBRID

E. burchelli × *E. caballus* dom.

Tulsa USA 0/1.

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

Amsterdam Ne 1/0; Edmonton AGF Can 0/1; Rotterdam Ne 1/0; Vienna Aus 1/0.

AMERICAN TAPIR *Tapirus terrestris*

Bekesbourne GB 1/1(1/0); Brownsville USA 0/1; Bucharest Rum 1/0; Denver USA 1/0; Dudley GB (0/1); Edmonton AGF Can 0/1*; Emmen Ne 1/0; Fort Worth USA 0/1; Jackson USA 1/0; Jersey GB 1/0; Kansas USA 1/0; Katowice Pol 0/1; Leningrad USSR 0/1; Lima Peru 1/1; Marwell GB 1/0; Melbourne Austral 0/1*; Mexico Chapultepec 0/1; NY Bronx USA 0/2*; Phoenix USA 0/1; Poznan Pol 1/0*; Rotterdam Ne 1/0; San Francisco USA (1/0); Sao Leopoldo Braz 2/0(1); Sao Paulo Braz (1); Stroudsburg USA 0/1; Tucson RP USA (1/0); Tulsa USA 0/1; Zagreb Yug 1/0.

***BAIRD'S TAPIR** *Tapirus bairdii* IUCN (E)

San Diego USA 1/1.

***INDIAN RHINOCEROS** *Rhinoceros*

unicornis IUCN (E)

Basle Switz 0/1; Mysore Ind 0/1; San Diego WAP USA (1/0)*.

SOUTHERN WHITE RHINOCEROS

Ceratotherium s. simum RARE

Columbus USA 0/1; Laguna Hills LCS USA 1/0; Phoenix USA 1/0; San Antonio USA (0/1); San Diego WAP USA 1/0.

***BLACK RHINOCEROS** *Diceros bicornis*

IUCN (V)

Colorado USA (0/1); Detroit USA 0/1; London ZSL GB 0/1; Los Angeles USA 1/0; Mysore Ind 0/1; Naples It 0/1; Oklahoma USA 1/0*; Sydney Austral (1/0).

ARTIODACTYLA**BUSH PIG** *Potamochoerus porcus*

Pretoria SA 2*.

***PYGMY HOG** *Sus salvanius* IUCN (I)

Gauhati Ind (2/1).

WILD BOAR *Sus scrofa*

Total bred: 135/135/220(23/26/65) in 49 collections.

MOROCCAN WILD BOAR *S. s. barbarus*

Rabat Moroc 13.

JAPANESE WILD BOAR *S. s. leucomystax*

Hamamatsu Jap 2/4; Hiroshima Jap 4/5(5(0/1/5)*; Sendai Jap 7/1(1/1); Tokyo Tama Jap 30(19).

WARTHOG *Phacochoerus aethiopicus*

Arnhem Ne 4(2); Lichtenburg SA 8; Lodz Pol (3/1); Lubumbashi Zaire 1/3; Stuttgart Ge 2/3(0/1); Wassenaar Ne 3/1.

BABIR *Babyrousa babyrussa* RARE

Antwerp Bel 0/2; Bandung Indon 2; Djakarta Indon (0/1); Stuttgart Ge (0/1); Surabaya Indon 5/3.

COLLARED PECCARY *Tayassu tajacu*

Abilene USA 4*; Adelaide Austral 3/5(1/1)*; Berlin W Ge 1/1; Bristol GB 2; Calgary Can 1/0; Chicago Br USA 11/10(5/4); Chicago LP USA 2; Detroit USA 11(8)*; Lima Peru 5(1); London ZSL GB (3/0)*; Malton GB 1*; Mexico Chapultepec 12; Mexico San Juan 2/1; Miami CP USA 1/0; NY Bronx USA 1*; Port-of-Spain Trin 4; Poznan Pol 2/0(2/2)*; Pretoria SA 4*; San Antonio USA 0/2; San Francisco USA(3); Stuttgart Ge 1/2(2(1/0/2)*; Waco USA 1/0; Wellington NZ 5; Whipsnade GB 4(1)*; Zurich Switz 4/1/3*.