

EAZA Yearbook 2007/2008

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<http://www.eaza.net/activities/cp/Pages/yearbook.aspx>

EAZA Rhinoceros TAG

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EAZA Rhinoceros TAG Annual Report 2007 - 2008



1. Information on organisation, structure and activities of the TAG

TAG chair:	Nick Lindsay, Whipsnade	Nick.Lindsay@zsl.org
TAG vice-chair:	Lars Versteeg, Hilvarenbeek	l.versteeg@beeksebergen.nl
TAG members:	Rajan Amin (London) Olivier Pagan (Basel) Mark Pilgrim (Chester) Beatrice Steck (Basel)	
TAG advisors:	General Thierry Jardin, Centre d'Etudes et de Recherches zoologiques augeron (CERZA), Husbandry Kees Rookmaker, Rhino Resource Center Wim Verberkmoes, GaiaPark Kerkrade Zoo, Husbandry Robert Zingg, Zoologischer Garten Zurich, Husbandry Behavioural Taxonomy Veterinary Robert Hermes, Leibniz Institute for Zoo and Wildlife Research - IZW, Reproduction Friederike von Houwald, Zoologischer Garten Basel Christian Waltzer, Zoo and Wildlife Veterinarian Research Institute of Wildlife Ecology Nutritional Marcus Clauss, Universitat Zurich-Irchel Conservation Richard Emslie, IUCN African Rhino Specialist Group Nico Van Strien, IUCN African Rhino Specialist Group Research Udo Ganslosser, University of Greifswald Jake Veasey, Woburn Safari Park Educational	
Current EEPs:	White rhinoceros (<i>Ceratotherium simum</i>) Black rhinoceros (<i>Diceros bicornis</i>) Indian rhinoceros (<i>Rhinoceros unicornis</i>)	
Current ESBs:		
TAG meeting:	Date of last meeting: 20 September 2008 Last meeting hosted at Antwerpen Zoo (Royal Zoological Society of Antwerp).	
Regional	Has a RCP been published? Yes	
Collection Plan:	Most recent edition published in 2006. Next edition to be published in 2010.	
Publications:	Not specified.	

2. Information on developments during 2007 - 2008

The EAZA Rhino Campaign continued to generate income after the official end of the campaign in 2006 with the total reaching €682,583. This extraordinary result means that EAZA is able to support all the selected projects plus all the projects on the reserve list. An additional reserve project in Nepal has also been funded. A total of 22 field projects have received funding. There are a few members that have continued their support to individual projects as a result of the campaign.

The TAG would like to recognise the considerable efforts put into the campaign by all EAZA members, some non-members and others who helped raise funds and promote the campaign. The tremendous result was only possible with the significant contribution to the organisation and the administration by Save the Rhino International and Cathy Dean and her energetic team.

Lars Versteeghe has taken on the role of White rhino EEP coordinator and was appointed vice-chair for the TAG in 2007 to provide general administrative support for TAG activities.

Mark Pilgrim was appointed as Black rhino EEP coordinator. The TAG would like to thank Dr Andreas Ochs for his hard work with the EEP over the past years which has seen the programme develop well.

Kees Rookmaaker of the Rhino Resource Center was appointed an advisor to the TAG in 2008.

The Indian rhino EEP was evaluated in 2007 resulting in a general overall conclusion by the EEP Committee that the EEP is doing well.

The TAG wishes to record the sad death of Nico Van Strien, co-chair of the Asian Rhino Specialist Group and a great friend and contributor to the EAZA Rhino TAG. His commitment to the conservation of Asian rhinos will be greatly missed.

3. TAG goals for 2009

- To hold a midyear meeting to discuss the new TAG procedures and to plan future work of the TAG.
- To develop the Regional Collection Plan in the revised format.
- To continue the development of the husbandry guidelines for Southern white rhinos and black rhinos.
- To review health problems in all taxa.



White rhinoceros

EEP Annual Report 2007 - 2008



1. Programme information

White rhinoceros

Ceratotherium simum

EEP established in 1992.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Lars Versteeg (Hilvarenbeek)

Species Committee members

Tom de Jongh (Arnhem)

Endre Sos (Budapest)

Anthony Tropeano (Colchester)

Achim Winkler (Duisburg)

Richard Osterballe (Givskud)

Bengt Roken (Kolmarden)

Eric Bairro Ruivo (Lisboa-zoo)

Thierry Jardin (Lisieux)

Peter Bircher (Marwell)

Jake Veasey (Woburn)

Behavioural advisor

Christian Waltzer

Jacques Kaandorp (Hilvarenbeek)

Veterinary advisor

Robert Hermes (Org-izw)

3. Activities

Species Committee

Last election: 2003

Last meeting: 20 September 2006 Madrid-zoo

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2007

Next edition: 2009

Husbandry guidelines

Published in 2002.

5. Status

Status and developments over the year 2007 - 2008

White rhinoceros
Ceratotherium simum

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ALMATY	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		AMNEVILLE	1.2.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.2.0
		ARNHEM	1.5.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.5.0
		AUGSBURG	0.1.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.2.0	0.0.0	0.1.0	1.3.0
		BANDHOLM	2.2.0	1.0.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		BARCELONA-ZOO	3.0.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		BORAS	0.3.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
		BRATISLAVA	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		BUDAPEST	1.1.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		BURFORD	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.0.0
		BUSSOLENGO	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		CABARCENO	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		COLCHESTER	1.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
		DALTON-FURNESS	2.2.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.3.0
		DEIGNE	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	0.1.0
		DORTMUND	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		DUBLIN	2.4.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.4.0
		DUDLEY	3.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.1.0	0.0.0	2.4.0
		DUISBURG	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		DVUR-KRALOVE	2.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.4.0
		EMMEN	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		ERFURT	3.2.0	0.2.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	1.4.0
		ESTEPONA	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.0.0	0.0.0	0.0.0	2.1.0
*		GELSENKIRCHEN	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.2.0	0.0.0	0.0.0	1.2.0
		GIVSKUD	3.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	2.5.0
		HILVARENBEEK	4.6.0	0.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	2.6.0
		JERUSALEM	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		KATOWICE	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
*		KERKRADE	0.0.0	0.0.0 (0.0.0)	3.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.0.0
		KESSINGLAND	2.2.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		KOBENHAVN-ZOO	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.2.0
		KOLMARDEN	1.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
*		KREINGLBACH	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.2.0	0.0.0	0.0.0	0.2.0
		LES-MATHES	1.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.1.0
		LILLE	0.0.0	0.0.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		LISBOA-ZOO	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.2.0	0.0.0	0.1.0	2.2.0
		LISIEUX	2.2.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.2.0	0.0.0	0.0.0	2.5.0
		MADRID-ZOO	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.1.0	0.0.0	0.0.0	1.2.0
		MALTON	2.0.0	0.0.0 (0.0.0)	2.0.0	2.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		MARWELL	2.2.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		MONTPELLIER	1.2.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.2.0
		MUNSTER	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		NYIREGYHAZA	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		OPOLE	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0
		OSNABRUCK	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.3.0	0.0.0	0.1.0	1.3.0
		OSTRAVA	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.0.0
		PEAUGRES	2.4.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.4.0
		PELISSANE	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		PLAISANCE-TOUCH	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		PORT-ST-PERE_NE	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0

	POZNAN	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
	PRESCOT	3.6.0	2.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0	5.5.0
	RAMAT-GAN	4.6.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	5.6.0
	SALZBURG-ZOO	2.3.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.2.0
	SCHWERIN	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0
	SIGEAN	1.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
	SOFIA_NE	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0
	ST-AIGNAN	1.2.0	1.0.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
	THOIRY	0.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0
	USTI-NAD-LABEM	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	0.1.0
	VALENCIA-PARC	0.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	1.2.0	0.0.0	0.0.0	2.2.0
*	VESZPREM	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.0.0	0.0.0	0.0.0	1.0.0
	WARMINSTER	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.2.0
	WHIPSNAD	4.6.0	3.0.0 (1.0.0)	0.0.0	3.0.0	0.0.0	0.0.0	0.1.0	3.5.0
	WOBURN	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
	WROCLAW	1.0.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0
	ZLIN	0.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0
	Total (67)	92.128.0	10.7.0 (3.0.0)	15.1.0	15.1.0	5.16.0	1.1.0	9.12.0	94.138.0

Summary

2007

The total number of white rhino increased with nine animals. Only five animals were born during 2007 and nine animals died. Only because 15 animals were imported from South Africa or came into the EEP from non EAZA holders did the population grow.

Transfers:

- Amneville received the last animal from Wroclaw. This bull had been on his own for three years.
- The breeding male in Arnhem (Dale) died because of trauma due to a kick from a giraffe. They received the second adult male from Hilvarenbeek.
- The last animal in Augsburg died. They will build a new large enclosure for a group of white rhino, to be finished in 2008.
- Barcelona sent out one of their males to Valencia Bioparc.
- Bewdley sent out 1.1 to Mallorca.
- Boras received a young adult male from Malton, and the second young adult male from Malton was sent to Kessingland. Kessingland sent out their related male to Montpellier in order to receive the unrelated male from Malton. Malton received two new young males from Whipsnade and Marwell.
- Erfurt sent their two young males to Lille.
- Lisboa, Lisieux and Valencia imported animals from South Africa.
- Madrid received one female from Valwo, Estepona received the male from Valwo, a park which was closed down.
- Osnabruck received a female from Hodenhagen.
- Veszprem received an animal through Safaripark Ganserndorf.

2008

The total number of white rhino increased with four animals. We have had a high number of births, 13 in total of which three did not survive. Unfortunately also 12 animals died in 2008. Only because four animals were imported from South Africa and two came from non-EAZA holders into the EEP did the population grow.

Transfers:

- Augsburg received 1.1 old animals from Salzburg to start up their new group, together with two import females.
- Hilvarenbeek sent a young male to Kerkrade, who is a new participant that holds a bachelor group. Kerkrade also received 2 young males from Whipsnade.
- Les Mathes received a male from Peaugres to replace a male they had lost.
- Osnabruck bought two females from Hodenhagen (non EAZA/EEP).
- Schmiding imported two females from South Africa.

Programme recommendations

Every zoo keeping white rhino has to consider the social behaviour aspects of this species. This means that white rhino should be kept in social groups in large exhibits. All zoos who keep one or two animals should consider this and act accordingly for the benefit of the species.

Any zoo that has the intention to import should follow the import guidelines as published by the EAZA Rhino TAG. Any zoo who does not meet the



White rhinoceros

EEP Annual Report 2007 - 2008



standards for exhibiting white rhino as published by the White rhino EEP should not import this species.

Any zoo with sub-optimal white rhino exhibits should work to improve these facilities or take the decision to stop keeping the species.

Programme difficulties

The White rhino EEP is facing many difficulties. The major problem is the lack of breeding in the population. It is apparent that the EEP population is far from being sustainable and needs yearly imports to maintain stable in numbers. Obviously this is not the intention of any EEP and this problem needs to be addressed even more.

Since the beginning of the EEP, effort has been undertaken to house white rhino in large exhibits in large social groups. The recommendation is to have a rhino facility for at least 2.3 rhino, with 1 hectare space in the outside exhibit. A large percentage of the white rhino holding institutions does not meet those requirements and the EEP is struggling on how to improve this situation.

The cooperation in this EEP is very difficult due to the political status of this species. Transfers are realised after many negotiations and considerations. This creates a huge delay in recommended exchanges.

Many institutions have intentions to import white rhino (or have recently imported) because there are no surplus females in the EEP. The EEP has set up import guidelines as recommendation for responsible and sustainable importations. Important recommendations are the exhibit size for a group of white rhino and the age of the animals which are to be imported.

There is a difficulty to get responses from all the white rhino holders. Usually several reminders and phone calls are needed to get the requested information.



Black rhinoceros

EEP Annual Report 2007 - 2008



1. Programme information

Black rhinoceros

Diceros bicornis

EEP established in 1990.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Mark Pilgrim (Chester)

Species Committee members

Andreas Ochs (Berlin-zoo)

Andreas Knieriem (Hannover)

Adrian Harland (Lympe)

Xavier Vaillant (Pont-scöff)

Mati Kaal (Tallinn)

Robert Zingg (Zurich)

3. Activities

Species Committee

Last election: Over 5 years ago.

Last meeting: 31 May 2000 Paris-zoo

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2007

Next edition: 2009

Husbandry guidelines

Not yet published.



Black rhinoceros EEP Annual Report 2007 - 2008



5. Status

Status and developments over the year 2007 - 2008

Black rhinoceros
Diceros bicornis

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		BEKESBOURNE	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		BERLIN-ZOO	1.6.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.6.0
		CHESTER	3.4.0	1.0.0 (0.0.0)	0.1.0	1.0.0	0.0.0	0.0.0	0.0.0	3.5.0
		DOUE-FONTAINE	2.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		DVUR-KRALOVE	5.10.0	3.0.0 (0.0.0)	3.0.0	1.0.0	0.0.0	0.0.0	2.1.0	8.9.0
		FRANKFURT	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		HANNOVER	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		KOLN	1.1.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.0.0
		KREFELD	2.1.0	1.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		LEIPZIG	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		LYMPNE	5.11.0	0.1.0 (0.0.0)	2.0.0	1.0.0	0.0.0	1.1.0	0.0.0	5.11.0
		MAGDEBURG	1.4.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.3.0
		PAIGNTON	1.1.0	0.1.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	0.2.0
		PONT-SCORFF	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		TALLINN	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0
		ZURICH	0.3.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.1.0	0.2.0
		Total (16)	27.50.0	6.2.0 (0.0.0)	6.2.0	6.2.0	0.0.0	1.1.0	2.2.0	30.49.0

Summary

This programme works well with good cooperation from all holders. The population is growing steadily and we will soon be in a position to look for new holders.



Indian rhinoceros

EEP Annual Report 2007 - 2008



1. Programme information

Indian rhinoceros

Rhinoceros unicornis

EEP established in 1990.

Goal(s)

Percentage of gene diversity 82% saved in 100 years.

Additional comments

Initial gene diversity is below 90%. It is intended to attempt to increase GD by getting new founders and to breed as many Indian rhinos as possible to maintain a demographically and genetically healthy population (as far as possible).

2. Programme personnel

Species Coordinator

Olivier Pagan (Basel)

Species Committee members

Marjo Hoedemaker (Amersfoort)

Friederike von Houwald (Basel)

Mark Pilgrim (Chester)

Darren McGarry (Edinburgh)

François-Pierre Huyghe (Lisieux)

Jesus Fernandez Moran (Madrid-zoo)

Marleen Huyghe (Mechelen)

Anna Jakucinska (Warszawa)

Herwig Pucher (Wien-zoo)

Veterinary advisor

Friederike von Houwald (Basel)

3. Activities

Species Committee

Last election: 2007

Last meeting: 20 September 2008 Antwerpen

Conservation activities

In the IUCN red list, the Indian rhino has recently been classified as vulnerable. Poaching is again on the increase. A summary of the two main conservation projects, Indian rhino vision 2020 for India, and Darwin Initiative Project for Nepal, is included in the international studbook 2008, issued by Dr. Friederike von Houwald, Basel Zoo.

Research activities

The university of Berne, Institute of animal pathology, will analyse the post mortems received from about 99 specimens worldwide.

In her dissertation, Regina Pfistermüller from Vienna continues the research on foot problems initiated by Friederike von Houwald. The pressure distribution of the feet of their two Indian rhinos, which arrived from semi-wild conditions in Nepal, will be compared with that of other animals in the EEP and related to the respective husbandry (diet, floor substrate) and weights of the animals.

It is also intended to compare the pressure distribution of Indian rhino feet with the pressure distribution in the feet of black and white rhinos.

Parity as a major factor affecting infant mortality of highly endangered Indian rhinoceros: Evidence from zoos and Dudhwa National Park, India, Biological Conservation 139 (2007) 457–461

Jan Pluhacek, Satya Priya Sinha, Ludek Bartos, Petr Sipek

4. Publications

Studbook

Recent edition: 2008

Next edition: 2009

Husbandry guidelines

Published in 2002.

5. Status

Status and developments over the year 2007 - 2008

Indian rhinoceros
Rhinoceros unicornis

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AMERSFOORT	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		BASEL	0.3.0	0.0.0 (0.0.0)	1.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.2.0
		BENIDORM	0.2.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		BERLIN-TIERPARK	2.3.0	0.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.3.0
		BERLIN-ZOO	1.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
*		CHESTER	0.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		DVUR-KRALOVE	0.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0
		EDINBURGH	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		LISBOA-ZOO	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		LISIEUX	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		MADRID-ZOO	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		MECHELEN	1.2.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
		MUNCHEN	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		NURNBERG	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		NYIREGYHAZA	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		ROTTERDAM	1.2.0	1.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		STUTTGART	1.2.0	1.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	2.1.0
		WARSZAWA	2.0.0	0.0.0 (0.0.0)	0.1.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		WHIPSNAD	1.4.0	1.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.1.0	2.3.0
		WIEN-ZOO	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		Total (20)	21.28.0	3.2.0 (0.0.0)	4.3.0	4.3.0	0.0.0	0.0.0	0.1.0	24.29.0

Summary

At the end of 2006, the Indian rhino EEP population comprised 50 (22.28) individuals at 20 institutions. There is a lack of breeding bulls. It is important to continue increasing the representation of wild-caught animals and underrepresented blood lines. All importations need the approval of the coordinators.

In 2007, the wild-caught founder at Berlin Tierpark was due to give birth. IZW extracted a dead female foetus with cyclopia. Both wild-caught females at Whipsnade successfully gave birth in 2006 and 2007.

2008 saw the birth of 2.2 more calves. The plans of West Midlands Safari & Leisure Park, Plzen Zoo and Zooparc de Beauval were approved by the species committee.

Several adult individuals do not breed. Cooperation with and examination of such animals by IZW is recommended.



Indian rhinoceros

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Notes

Programme difficulties

- successful breeding of the older wild-caught females is problematic
- very unequal founder representation
- high relatedness of many of the animals in the EEP
- lack of breeding bulls
- foot problems

Programme recommendations

- breed regularly, especially with animals from underrepresented bloodlines
- provide soft and not too dry substrate on indoor and outdoor exhibits and provide access to pools all year round
- weigh the animals on a regular basis
- work more closely with the SSP.

International studbook keeper: Dr. Friederike von Houwald, Basel zoo

EEP coordinator's assistant: Beatrice Steck, Basel zoo