

# EAZA Yearbook 2007/2008

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

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## EAZA Small Mammal TAG

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# EAZA Small Mammal TAG Annual Report 2007 - 2008



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

- TAG chair:** Klaus Rudloff, Berlin-tierpark [k.rudloff@tierpark-berlin.de](mailto:k.rudloff@tierpark-berlin.de)
- TAG vice-chair:** Mike Jordan, Chester
- TAG members:** Pavel Brandl (Praha)  
Bryan Carroll (Bristol)  
Marc Damen (Overloon)  
Wolfgang Dressen (Krefeld)  
Pierre Gay (Doue-fontaine)  
Jutta Heuer (Halle)  
Paul Howse (Chester)  
Achim Johann (Rheine)  
Heiner Klos (Berlin-zoo)  
Ute Magiera (Osnabruck)  
Will Masefield (Jersey)  
John Meek (Newquay)  
Stewart Muir (Newquay)  
John Partridge (Bristol)  
Tomas Pes (Plzen)  
Ilona Schappert (Dortmund)  
Dagmar Schratte (Wien-zoo)  
Ewa Trzesowska (Poznan)  
Sergei V Popov (Moskva)  
Martin van Wees (Rotterdam)  
Jan Vasak (Jihlava)
- TAG advisors:** **General**  
Tesda de Groot, Vereniging voor Exotische Zoogdieren  
Nicolas Gerrits, Erasmus University Rotterdam  
Jan Haft, Non-EAZA Institutions  
Jens Kaemmerling, Tierpark Cottbus  
Jan Smielowski, Poznan University
- Behavioural**
- Taxonomy**
- Veterinary**
- Nutritional**
- Conservation**
- Research**
- Educational**
- Current EEPs:** Giant anteater (*Myrmecophaga tridactyla*)  
Rodrigues fruit bat (*Pteropus rodricensis*)
- Current ESBs:** Mountain paca (*Agouti taczanowskii*)  
Linne's two-toed sloth (*Choloepus didactylus*)  
Hoffmann's two-toed sloth (*Choloepus hoffmanni*)  
Aardvark (*Orycteropus afer*)  
Livingstone's fruit bat (*Pteropus livingstonii*)  
Tamandua (*Tamandua tetradactyla*)
- TAG meeting:** Date of last meeting: 19 September 2008  
Last meeting hosted at Antwerpen Zoo (Royal Zoological Society of Antwerp).
- Regional Collection Plan:** Has a RCP been published? Yes
- Publications:** Schoo, W. 2008: European Studbook for the Aardvark (*Orycteropus afer*)  
Heuer, J. 2008: European Studbooks for the Two-toed Sloth (*Choloepus spec.*)  
Honigs, S. 2008: Monitoring Studbook for Gundis (*Ctenodactylus gundi*).  
Schappert, I. 2008: International register and studbook for the Giant Anteater, *Myrmecophaga tridactyla*. Dortmund

## 2. Information on developments during 2007 - 2008

In 2007 in the EAZA Small Mammal TAG conducted two successful meetings, one in Montpellier - Parc de Lunaret, and one during the EAZA Annual Conference in Warszawa

The following topics were presented during the midyear TAG meeting in Parc de Lunaret, Montpellier:

- Asian Pangolin Conservation Project 2007 by Stewart Muir
- The Wildlife Trade in Southeast Asia by Scott Robertson, presented by Stewart Muir
- Sloths in Colombia by Jutta Heuer
- Streaked tenrecs (*Hemicentetes nigriceps*) in Moscow zoo by Galina Vakhrusheva & Olga Ilchenko
- The saving of *Meriones dahli* (Shidlovski, 1962) (The first steps of Dahl's Jird conservation project) by Sergey Popov & Olga Ilchenko
- The mountain paca at Leningrad Zoo in St. Petersburg by Svetlana Evdokimova
- Indian mouse-deer or Indian Spotted Chevrotain, *Moschiola meminna* Hodgson, 1843 in situ and ex situ programmes by Jan Smielowski

The following topics and reports were discussed and/or presented during the Small Mammal TAG meeting in Warszawa:

- Report on the spring 2007 Combined Small Mammal TAG & Small Carnivore TAG meeting 27 – 30 March at Parc de Lunaret, Montpellier in France.
- Reports from EEPs, ESBs and monitoring studbooks (MSB) and other news: Rodriguez fruit bat, Livingstone's fruit bat, aardvark, giant anteater, tamandua, sloths, armadillos, Merriam's kangaroo rat, Malagasy giant jumping rat, Turkish spiny mouse, mountain paca, gundis, hyraxes, etc.
- Streaked tenrecs (*Hemicentetes nigriceps*) in Moscow zoo, a research report about husbandry and reproduction by Galina Vakhrusheva, and Olga Ilchenko;
- The saving of *Meriones dahli* (Shidlovski, 1962) - the first steps of Dahl's Jird conservation project by Sergei Popov, and Olga Ilchenko;
- Project for the conservation of the giant anteater by Guillermo Perez Jimeno;
- Information about the pacarana project by Stewart Muir and Mike Jordan;
- The Souselik projects in Poland by Jan Smielowski and Radoslaw Ratajszszak;
- New small mammals from Egypt and Kenya by Thomas Pes;
- First results from the hyrax questionnaires by Ute Magiera;
- Gundi research in Tunisia by Sandra Honigs;
- Sloth programmes in Colombia by Jutta Heuer.

In 2008 in the EAZA Small Mammal TAG conducted two successful meetings too, one in Parco Natura Viva Bussolengo and one during the EAZA Annual Conference in Antwerp.

The combined TAG meeting was held from 16-19 April 2008 at Parco Natura Viva in Bussolengo, including a visit to the Museum of Natural History in Verona. The following small mammal topics and reports were discussed and/or presented during the meeting in Bussolengo:

- The Northern Luzon cloud rat (*Phloeomys pallidus*) at Prague Zoo by Pavel Brandl;
- Small mammals in Sudan. First results of the gerbil collection by Jan Smielowski;
- Reintroduction programmes of souseliks in Poland by Andrzej Kepel and Boris Kala, presented by Jan Smielowski;
- Hand-rearing great jerboas (*Allactaga major*) by Galina Vakhrusheva, and Olga Ilchenko;
- Census of the micromammals in Parco Natura Viva: preliminary data Tormen N., Tassoni T., Garollo E., Pierobon C., Coppellotti O., Guidolin L. Department of Biology, University of Padova;
- Small mammals of Croatia by Maša Ljuština;
- Jungle trek @ the Papiliorama Swiss Tropical Gardens by Chantal Derungs and Caspar Bijlefeld;
- Tenrecs in 2007 by Ewa Trzesowska.

On Friday 19th September 2008 the Small Mammal TAG meeting was held during the EAZA Annual Conference in Antwerp.

The following topics were among those to be covered.

- Report on the spring 2008 Combined Small Mammal TAG & Small Carnivore TAG meeting at Parco Natura Viva Bussolengo in Italy.
- Reports from EEPs, ESBs and monitoring studbooks (MSB) and other news: Tenrecs, Rodriguez fruit bat, Livingstone's fruit bat, aardvark, giant anteater, tamandua, sloths, armadillos, Merriam's kangaroo rat, Malagasy giant jumping rat, Turkish spiny mouse, mountain paca, gundis, hyraxes North and South American porcupines, etc.
- The Amsterdam giant anteater project in South America by Hans van Weerd;
- Information about the pacarana project by Stewart Muir;
- New rodents in our collections by Tomas Pes;
- Northern Luzon cloud rat husbandry and management by Pavel Brandl;
- Results of the hyrax monitoring for an ESB by Ute Magiera, and Jacky Moody;
- Aardvark and other "Small" Mammals in the wild by Fabian Schmidt;
- Capybara monitoring by Peter Dillingham and Sue Woodgate;
- New Desmarest's hutias in Czech zoos by Pavel Brandl;

### 3. TAG goals for 2009

- Collecting data about hyraxes in zoos and preparation of a preliminary studbook;
- Preparing a monitoring studbook for the Cloud rats in EAZA zoos;
- Support pacarana project team;
- Support pangolin project in South East Asia;
- Monitor Agouti species (*Dasyprocta spec.*, *Myoprocta spec.*) in EAZA collections;
- Preparation of the Combined Small Mammal TAG and Small Carnivore Meeting at Plzen Zoo in Czech Republic (Spring 2009).
- Reviewing the collection plans of all small mammals TAG taxa in connection with some new taxonomic and conservation data, see Wilson and Reeder, 2005: Mammal species of the world.



Linne's two-toed sloth  
ESB Annual Report 2007 - 2008



## 1. Programme information

Linne's two-toed sloth

*Choloepus didactylus*

**ESB established in 1995.**

### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Target population size A= 113 and B= 200

### Additional comments

Founders = 58

Potential Founders = 37 additional

Living Descendants = 86,00

Percent Known = 81,9

GD = 0,9757

Potential GD = 0,9943

GV = 0,9750

fge = 20,60

Potential fge = 87,68

Founder Genomes Surviving = 39,53

Potential Founder Genomes Surviving = 87,68

Mean F = 0,0145

## 2. Programme personnel

### European Studbook Keeper

Jutta Heuer (Halle)

## 3. Publications

### Studbook

Recent edition: 2008

Next edition: 2010

### Husbandry guidelines

Published in 2002.

#### 4. Status

##### Status and developments over the year 2007 - 2008

Linne's two-toed sloth  
*Choloepus didactylus*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AMERSFOORT	1.2.0	0.1.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		AMSTERDAM	3.1.0	1.1.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	4.3.0
		ANTWERPEN	2.2.0	2.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		ARNHEM	1.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		BELFAST	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		BERLIN-TIERPARK	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
		BERLIN-ZOO	1.1.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	1.0.0	0.0.0
		BRATISLAVA	1.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		BRISTOL	0.2.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		BROXBOURNE	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
		BUDAPEST	1.2.0	0.1.0 (0.0.0)	2.0.0	0.1.0	0.0.0	0.0.0	1.0.0	2.2.0
		BURFORD	1.1.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		CAMBRON-CASTEAU	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		CHEMNITZ	1.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
*		COLCHESTER	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
		DEBRECEN	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
		DORTMUND	2.3.0	2.1.0 (0.0.0)	0.0.0	0.1.0	1.1.0	0.0.0	0.1.0	5.3.0
		DRESDEN	1.2.0	0.0.1 (0.0.1)	0.1.0	0.0.0	0.0.0	0.0.0	0.1.0	1.2.0
		DUBLIN	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		DUISBURG	2.2.0	0.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.1
		EBERSWALDE	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0
		EMMEN	1.2.0	0.1.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.2.0
		FRANKFURT	1.1.0	0.1.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		HALLE	1.3.0	0.0.0 (0.0.0)	1.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.2.0
		HAMERTON	2.3.3	0.0.3 (0.0.3)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.1	2.3.2
		HANNOVER	1.3.0	0.3.0 (0.2.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.3.0
*		HEIDELBERG	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
		HOYERSWERDA	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.1.0
		JIHLAVA	1.2.0	0.0.1 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.1.1
		KERZERS	2.5.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.5.0
		KOBENHAVN-ZOO	1.2.0	0.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.1
		KREFELD	2.3.0	0.1.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.4.0
		KREngLBACH	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
		KRISTIAN SAND	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
		LONDON	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
*		MADRID-FAUNIA	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
*		MONTPELLIER	0.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0
		MOSKVA	1.1.2	0.0.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.2
		MUNCHEN	2.1.0	1.0.1 (1.0.1)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
*		NEWCHURCH	5.2.0	1.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	5.2.0
		NORDHORN	2.1.0	1.1.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		NURNBERG	2.2.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		ODENSE	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
		OLOMOUC	1.1.0	0.0.0 (0.0.0)	0.1.0	0.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		OSNABRUCK	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
		PAIGNTON	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.1.0
		PARIS-JARDIN	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
		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
		PRAHA	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.2.0
*		PUERTO-CRUZ	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.1.0	0.0.0	0.0.0	1.1.0



Linne's two-toed sloth  
ESB Annual Report 2007 - 2008



	RAMAT-GAN	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
	RANDERS	1.2.1	0.0.2 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.2	1.2.1
*	SCHWERIN	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
	STUTTGART	1.2.0	1.1.0 (0.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.0.0	2.1.0
	TWYXCROSS	1.1.0	0.0.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
	USTI-NAD-LABEM	1.2.0	0.1.1 (0.0.0)	0.1.0	0.1.0	0.0.0	0.0.0	0.0.0	1.3.1
	VESZPREM	2.1.0	0.0.1 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.1	1.1.0
	WIEN-ZOO	1.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
*	WROCLAW	0.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.1.0	1.0.0
	ZAGREB	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0
	ZLIN	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.2.0	0.0.0	2.4.0	0.0.0
	ZURICH	1.4.0	0.2.1 (0.1.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.1.0	1.2.1
	Total (62)	73.82.6	9.15.17 (1.3.9)	11.12.0	11.12.0	2.4.0	0.0.0	8.14.4	75.84.10

**Discrepancy notes**

Linne's two-toed sloth  
*Choloepus didactylus*

MADRID-FAUNIA

The status on 1 January 2007 is 1.0.0 instead of 0.0.0 as listed on 31 December 2006. This animal was formerly incorrectly registered as hoffmanni

**Summary**

Not specified.



# Hoffmann's two-toed sloth

## ESB Annual Report 2007 - 2008



### 1. Programme information

Hoffmann's two-toed sloth

*Choloepus hoffmanni*

**ESB established in 1995.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

### 2. Programme personnel

**European Studbook Keeper**

Jutta Heuer (Halle)

### 3. Publications

#### Studbook

Recent edition: 2008

Next edition: 2010

#### Husbandry guidelines

Published in 2002.

### 4. Status

#### Status and developments over the year 2007 - 2008

Hoffmann's two-toed sloth

*Choloepus hoffmanni*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		HELSINKI	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		NEWQUAY	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
		STOCKHOLM-AQUA	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 (3)	1.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.4.0

#### Summary

There are only 1.4 old animals in Europe. The animal from Fuunia Madrid is now registered as *Choloepus didactylus*.  
May be one other old female survives in Halmstad (non-EAZA).



# Giant anteater

## EEP Annual Report 2007 - 2008



### 1. Programme information

Giant anteater

*Myrmecophaga tridactyla*

**EEP established in 1985.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

### 2. Programme personnel

#### Species Coordinator

Ilona Schappert (Dortmund)

#### Veterinary advisor

Christine Osmann (Dortmund)

### 3. Activities

#### Species Committee

Last election:

Last meeting:

#### Conservation activities

Not specified.

#### Research activities

Not specified.

### 4. Publications

#### Studbook

Recent edition: 2007

Next edition: 2009

#### Husbandry guidelines

Not yet published.

## 5. Status

### Status and developments over the year 2007 - 2008

Giant anteater  
*Myrmecophaga tridactyla*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AALBORG	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
		AMSTERDAM	2.0.0	0.1.0 (0.0.0)	0.0.0	1.0.0	0.1.0	0.0.0	0.0.0	1.2.0
		APELDOORN	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
		BERLIN-ZOO	1.1.0	2.1.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		COLCHESTER	1.0.0	1.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		DORTMUND	3.6.0	2.1.0 (0.0.0)	1.0.0	3.2.0	0.0.0	1.0.0	0.0.0	2.5.0
		DUISBURG	1.2.0	0.1.0 (0.1.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		EDINBURGH	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
		HALLE	1.1.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		KOBENHAVN-ZOO	1.2.0	2.0.2 (1.0.2)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	2.1.0
		KREFELD	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
		LISBOA-ZOO	1.0.0	1.0.0 (0.0.0)	0.0.0	1.0.0	1.1.0	0.0.0	0.0.0	2.1.0
		LONDON	2.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
*		MADRID-ZOO	0.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	1.0.0	0.0.0	0.0.0	1.1.0
		MAGDEBURG	2.1.0	0.1.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		MARWELL	1.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
*		MONTPELLIER	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
		MUNCHEN	2.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	2.1.0
		NEWCHURCH	1.0.0	1.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		OLOMOUC	2.0.0	0.0.0 (0.0.0)	0.2.0	1.0.0	0.0.0	0.0.0	0.1.0	1.1.0
*		OPOLE	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
*		OVERLOON	0.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0
		POZNAN	1.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		RAMAT-GAN	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.1.0	0.0.0	0.0.0	1.1.0
*		SABLES-OLONNE	0.0.0	1.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
*		ST-AIGNAN	0.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	1.1.0	0.0.0	1.0.0	1.1.0
		STUTTGART	2.1.0	0.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		WARSAWA	0.1.0	1.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		WIEN-ZOO	1.1.0	0.1.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		ZLIN	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
		ZURICH	1.4.0	0.2.0 (0.0.0)	0.0.0	0.3.0	0.0.0	0.0.0	0.0.0	1.3.0
		Total (31)	31.26.0	11.10.2 (2.1.2)	9.9.0	9.9.0	3.4.0	1.0.0	2.1.0	40.38.0

### Summary

By now we have good breeding success within the Giant anteater EEP. Therefore it is likely that all institutions on the waiting list will get animals within the next two years.

Many animals are from the same bloodline (Dortmund) which is not surprising as 57 animals were born at Dortmund Zoo of which 39 survived to adulthood. So it is difficult to find unrelated animals to form new pairs within the current EEP population. In the last years a few animals were imported from non EEP zoos, so new bloodlines will be established. Nevertheless it is still important to import new bloodline from North and South America or from Japanese institutions into the EEP.

Although the waiting list is long it might be necessary to stop breeding with genetically over represented animals.



# Tamandua

## ESB Annual Report 2007 - 2008



### 1. Programme information

Tamandua

*Tamandua tetradactyla*

**ESB established in 2002.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

### 2. Programme personnel

**European Studbook Keeper**

Wolfgang Dressen (Krefeld)

### 3. Publications

#### Studbook

Recent edition: Not yet published.

Next edition: 2010

#### Husbandry guidelines

Not yet published.

### 4. Status

#### Status and developments over the year 2007 - 2008

Tamandua

*Tamandua tetradactyla*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ANTWERPEN	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
		COLCHESTER	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
		DORTMUND	3.3.0	0.0.0 (0.0.0)	1.0.0	2.0.0	0.0.0	0.0.0	0.0.0	2.3.0
*		DUISBURG	0.0.0	0.0.0 (0.0.0)	2.1.0	0.0.0	0.0.0	0.0.0	1.0.0	1.1.0
		FRANKFURT	1.2.0	0.1.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.2.0	1.1.0
*		KERZERS	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		KOBENHAVN-ZOO	2.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		KREFELD	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
		LONDON	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.1.0
		MAGDEBURG	1.2.0	1.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		NEWCHURCH	2.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		OLOMOUC	2.1.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		POZNAN	1.1.0	0.1.2 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.2	1.1.0
*		ZURICH	0.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0
		Total (14)	16.15.0	1.2.2 (0.0.0)	6.1.0	6.1.0	0.0.0	0.0.0	3.3.2	14.14.0

#### Discrepancy notes

Tamandua

*Tamandua tetradactyla*

NEWCHURCH

No reply received in 2008.

#### Summary

A growing number of zoos keep tamandua or want to start with this species. Only few institutions breed regularly. Over the last years some animals died because of wrong nutrition over a long time. Due to the low number of founders there are difficulties to build up unrelated pairs. From a new imported pair at Olomouc Zoo, which is not related to the population, a male offspring was transferred to Dortmund Zoo to build up a new breeding pair.



Rodrigues fruit bat  
EEP Annual Report 2007 - 2008



**1. Programme information**

Rodrigues fruit bat

*Pteropus rodricensis*

**EEP established in 1996.**

**Goal(s)**

Percentage of gene diversity 90% saved in 100 years.

**2. Programme personnel**

**Species Coordinator**

Paul Howse (Chester)

**3. Activities**

**Species Committee**

Last election: No election ever held.

Last meeting:

**Conservation activities**

Not specified.

**Research activities**

Not specified.

**4. Publications**

**Studbook**

Recent edition: 2003

Next edition: 2009

**Husbandry guidelines**

Published in 1988.

## 5. Status

### Status and developments over the year 2007 - 2008

Rodrigues fruit bat  
*Pteropus rodricensis*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ALFRISTON	21.0.0	0.0.0 (0.0.0)	5.0.0	0.0.0	0.0.0	0.0.0	2.0.0	24.0.0
		ARNHEM	15.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0	13.0.0
		BALLAUGH	9.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	4.0.0	5.0.0
*		BELFAST	0.0.0	0.0.0 (0.0.0)	20.0.0	0.0.0	0.0.0	0.0.0	0.0.0	20.0.0
		CHESTER	35.37.4	16.11.3 (0.0.2)	0.0.0	25.0.0	0.0.0	0.0.0	6.5.1	20.43.4
		DALTON-FURNESS	30.19.8	11.12.3 (5.1.1)	0.0.0	0.0.0	0.0.0	0.0.0	8.5.2	28.25.8
		DUBLIN	7.25.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0	6.23.0
		EMMEN	7.0.1	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	7.0.1
		HAMBURG	9.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	9.0.0
		JERSEY	11.6.0	1.0.1 (1.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0	9.6.0
		JIHLAVA	10.4.1	1.1.1 (0.0.1)	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0	10.5.1
		KOLN	0.9.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.9.0
		LES-MATHES	23.20.4	6.6.4 (4.6.3)	0.0.0	0.0.0	0.0.0	0.0.0	3.0.1	22.20.4
		MALTON	0.15.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.15.0
		MARWELL	0.7.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.7.0
		NEWCHURCH	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
		NEWQUAY	0.6.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.6.0
		OLOMOUC	18.14.0	1.0.8 (0.0.0)	0.0.0	6.0.0	0.0.0	0.0.0	2.0.0	11.14.8
		PAIGNTON	0.28.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	0.27.0
		PLZEN	14.12.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	14.11.0
*		PRAHA	0.0.0	0.0.0 (0.0.0)	6.0.0	0.0.0	0.0.0	0.0.0	0.0.0	6.0.0
		ZURICH	0.24.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.24.0
		Total (22)	211.226.18	36.30.20 (10.7.8)	31.0.0	31.0.0	0.0.0	1.1.0	30.13.4	206.235.26

#### Discrepancy notes

Rodrigues fruit bat  
*Pteropus rodricensis*

JIHLAVA	The status on 1 January 2007 is 10.4.1 instead of 4.4.0 as listed on 31 December 2006.
LES-MATHES	The status on 1 January 2007 is 23.20.0 instead of 18.14.1 as listed on 31 December 2006.
NEWQUAY	The status on 1 January 2007 is 0.6.0 instead of 0.9.0 as listed on 31 December 2006.
OLOMOUC	The status on 1 January 2007 is 18.14.0 instead of 10.16.0 as listed on 31 December 2006.
PLZEN	The status on 1 January 2007 is 14.12.0 instead of 15.9.0 as listed on 31 December 2006.

#### Summary

The European population remains stable, there was a small increase in numbers of 2.6%.

The number of participating institutions has increased by one. Fourteen institutions hold single sex groups and 8 hold both sexes, 6 of which bred during 2008.

Of the 470 specimens of known sex, 46.5% are male and 53.5% are female.



# Aardvark

## ESB Annual Report 2007 - 2008



### 1. Programme information

Aardvark

*Orycteropus afer*

**ESB established in 1995.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

### 2. Programme personnel

**European Studbook Keeper**

Wineke Schoo (Arnhem)

### 3. Publications

#### Studbook

Recent edition: 2008

Next edition: 2009

#### Husbandry guidelines

Not yet published.

### 4. Status

#### Status and developments over the year 2007 - 2008

Aardvark

*Orycteropus afer*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ANTWERPEN	1.1.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		ARNHEM	1.3.0	1.3.0 (0.0.0)	1.0.0	1.3.0	0.0.0	0.0.0	0.0.0	2.3.0
		BERLIN-ZOO	1.1.0	0.0.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
*		BLACKPOOL	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
		COLCHESTER	1.2.0	1.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.2.0
		FRANKFURT	1.1.0	0.0.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		KESSINGLAND	1.2.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.2.0
*		LONDON	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
		PRAHA	2.2.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	2.1.0
		RANDERS	2.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		SAARBRUCKEN	1.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
*		VALENCIA-PARC	0.0.0	0.0.0 (0.0.0)	0.2.0	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0
		Total (12)	11.14.0	2.4.2 (0.0.2)	5.5.0	5.5.0	0.0.0	0.0.0	0.1.0	13.17.0

#### Summary

In 2007 and 2008 three new participants joined the studbook, Valencia in Spain, and Blackpool and London Zoo in the United Kingdom. A total of eight (2.4.2) animals were born of which two did not survive. All aardvarks in EAZA zoos are captive born as the last wild caught animal died in 2005. To improve breeding some animals have been moved in 2008.

#### Programme difficulties:

Inbreeding will be inevitable in the near future. Apart from the question if this is considered to be a problem, it turns out to be much more difficult than expected to import animals from the American population, or from the wild. Zoos in the United States do not seem very willing to put a lot of efforts in an exchange of animals with Europe. Wild caught animals are an option, but there is some reluctance, because of the doubt in reliability of the parties who are currently offering aardvarks from the wild. Furthermore, all animals in European zoos are from Namibia and the animals offered are often from Tanzania. If subspecies problems exist is yet unknown. Some genetic research has been done, but no satisfying results have become apparent. However, fresh blood is needed to avoid inbreeding.



**Rock hyrax**  
**ESB Annual Report 2007 - 2008**



**1. Programme information**

Rock hyrax

*Procavia capensis*

**ESB established in 2008.**

**Goal(s)**

Percentage of gene diversity 90% saved in 100 years.

**2. Programme personnel**

**European Studbook Keeper**

Ute Magiera (Osnabruck)

**3. Publications**

**Studbook**

Recent edition: Not yet published.

Next edition: 2009

**Husbandry guidelines**

Not yet published.

#### 4. Status

##### Status and developments over the year 2007 - 2008

Rock hyrax  
*Procavia capensis*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AMERSFOORT	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
		AMNEVILLE	3.4.0	2.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0	3.5.0
		BASEL	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-TIERPARK	1.3.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.2.0	0.0.0
		BETTEMBOURG	5.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	4.0.0
		DUBAI-WC	3.0.1	0.0.0 (0.0.0)	3.6.0	0.0.0	0.0.0	0.0.0	0.0.0	6.6.1
		DUISBURG	1.2.0	1.0.4 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.2	1.1.2
		DVUR-KRALOVE	2.5.0	3.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.2.0	2.0.0	3.4.0
		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
		ERFURT	1.6.1	0.1.2 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0	1.5.3
		FRANKFURT	7.5.0	3.5.0 (0.0.0)	0.0.0	6.3.0	0.0.0	0.0.0	1.0.0	3.7.0
		HAMBURG	1.3.4	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.4
		KERKRADE	1.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		KESSINGLAND	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
		MARWELL	2.6.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	1.5.0
		OLOMOUC	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
		OSNABRUCK	2.3.1	2.2.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	3.5.1
		PLZEN	1.3.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.3.0
		PRAHA	4.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	2.1.0	1.1.0	1.2.0
		RIGA	3.6.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.1.0	1.0.0	1.5.0
		ROTTERDAM	2.2.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		SHARJAH	14.26.48	0.0.20 (0.0.0)	0.0.0	3.6.0	0.0.0	0.0.0	0.3.2	11.17.66
		STUTTGAART	3.3.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.2.0	3.2.0
		TALLINN	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
*		VALENCIA-PARC	3.0.0	0.0.0 (0.0.0)	7.1.0	0.0.0	0.0.0	0.0.0	0.0.0	10.1.0
		WARSZAWA	2.2.0	3.2.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	5.4.1
		ZAGREB	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0
		ZURICH	1.0.0	0.0.5 (0.0.0)	0.2.0	0.0.0	0.0.0	0.0.0	0.0.5	1.2.0
		Total (28)	70.89.55	15.14.32 (0.0.0)	12.10.0	12.10.0	0.0.0	3.4.0	11.15.9	71.84.78
*		Non-EAZA Institutions (2)	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.1.0	0.0.0	0.0.0	1.2.0

#### Summary

At 31 December 2008 72.86.78 individuals of rock hyrax were kept in 31 institutions. Ten of these institutions identified which subspecies they keep (*P. c. capensis*, *P. c. jayakari* or *P. c. syriaca*). The last individual of *P. c. syriaca*, which was kept in Plzen Zoo, died in 2008.

#### Programme difficulties:

In contrast to the results of the first survey (2005) the ex situ population was self-sustaining in 2008. But the successful management of the population is affected adversely by the high percentage of undefined subspecies. Many of the hyraxes currently living in EAZA institutions are wild born and their capture or birth locations are not reliably known. That means no conclusions concerning the subspecies are possible. Through genetic study subspecies of captive hyraxes can be determined and verified. Moreover it will show how valid and different the subspecies are (the taxonomy is also discussed and controversial – see Wilson & Reeder 2005, Olds & Soshani 1982).

Dr. Carlos Fernandes from the Biodiversity and Ecological Processes Group of the Cardiff University in the United Kingdom and the Centre of the Environmental Biology of the Lisbon University in Portugal, analysed hair samples from hyraxes from Zoo d'Amnéville and the Breeding Centre of Endangered Wildlife in Sharjah with the aim to create a phylogenetic tree. Stuttgart, Frankfurt and Osnabrück sent also hair samples during last year. Unfortunately up to now no further results are available and no progress is made. Also efforts to determine subspecies by phenotypical features were not successful. Without a solution during near future it is foreseeable that we will breed "zoo-hyraxes".



## Rock hyrax

### ESB Annual Report 2007 - 2008



Programme recommendations:

The subspecies should be determined and verified. At moment the unknown subspecies should not mixed with defined subspecies.

#### Notes

The ESB was initiated in 2008, therefore the data in the report only represents that year.



# Bush hyrax

## ESB Annual Report 2007 - 2008



### 1. Programme information

Bush hyrax

*Heterohyrax brucei*

**ESB established in 2008.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

### 2. Programme personnel

**European Studbook Keeper**

Ute Magiera (Osnabruck)

### 3. Publications

#### Studbook

Recent edition: Not yet published.

Next edition: 2009

#### Husbandry guidelines

Not yet published.

### 4. Status

#### Status and developments over the year 2007 - 2008

Bush hyrax		<i>Heterohyrax brucei</i>								
New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
*		BERLIN-TIERPARK	0.0.0	0.2.0 (0.0.0)	0.0.0	0.0.0	2.3.0	0.0.0	0.0.0	2.5.0
		KRONBERG	1.2.0	1.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	1.3.0
*		OSNABRUCK	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.1.0	0.0.0	0.0.0	1.1.0
		RANDERS	1.2.3	0.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.4
		Total (4)	2.4.3	1.4.1 (0.0.0)	0.0.0	0.0.0	3.4.0	0.0.0	1.2.0	5.10.4

#### Summary

At 31 December 2008 5.10.4 individuals of bush hyrax were kept in four institutions. Berlin TP and Osnabrück started keeping this species in 2008.

#### Programme difficulties and recommendation:

The population size of EAZA institutions is, with only 19 individuals, too small to manage it well. Therefore it is necessary to cooperate with non-EAZA zoos. During last year EAZA zoos received 3.4 individuals from non-EAZA zoos.

#### Notes

The ESB was initiated in 2008, therefore the data in the report only represents that year.