

EAZA Yearbook 2007/2008

Please note that this document is one chapter of the EAZA Yearbook 2007/2008. Please visit the EAZA website to download the other chapters or the complete Yearbook:

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

EAZA Deer TAG

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EAZA Deer 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
TAG vice-chair:	Noam Werner, Jerusalem	wernerny@netvision.net.il
TAG members:	Leif Blomqvist (Helsinki) Nick Ellerton (Prescot) Jens-Ove Heckel (Landau) Xavier Legendre (Obterre) Nick Lindsay (Whipsnade) Radoslaw Ratajczak (Wroclaw) Ulrich Schürer (Wuppertal) Andre Stadler (Wuppertal) Janos Szantho (Amsterdam) Ryszard Topola (Lodz) Shmulik Yedwab (Jerusalem) Waltraut Zimmermann (Köln)	
TAG advisors:	General Marina Euler, Zoologischer Garten Basel Arnd Schreiber, Heidelberg University Roland Wirth, Zoologischen Gesellschaft für Arten- und Populationschutz Behavioural Taxonomy Veterinary Nutritional Conservation Research Educational	
Current EEPs:	Indochinese sika deer (<i>Cervus nippon pseudaxis</i>) Mesopotamian fallow deer (<i>Dama mesopotamica</i>) Chilean pudu (<i>Pudu pudu</i>) Lesser Malayan mousedeer (<i>Tragulus javanicus</i>)	
Current ESBs:	Bactrian wapiti (<i>Cervus elaphus bactrianus</i>) Forest reindeer (<i>Rangifer tarandus fennicus</i>)	
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 Most recent edition published in 2002.	
Publications:	Govers, J. & Martin van Hees, 2006: Studbook for the Lesser Malayan Mousedeer (<i>Tragulus javanicus</i>). Artis Zoo, Amsterdam. Manchard, N., Maugest, C. & Claro, F.: Global Herdbook of Eld's deer (<i>Cervus eldi</i> McClelland, 1842). Rudloff, K., 2007: Internationales Zuchtbuch für den Mesopotamischen Damhirsch 17. Tierpark Berlin, Berlin Rudloff, K., 2008: Internationales Zuchtbuch für den Mesopotamischen Damhirsch 18. Tierpark Berlin, Berlin Rudloff, K., 2007: Internationales Zuchtbuch für den Vietnam-Sikahirsch 14. Tierpark Berlin, Berlin. Rudloff, K., 2008: Internationales Zuchtbuch für den Vietnam-Sikahirsch 15. Tierpark Berlin, Berlin. Schürer, U. & Stadler, A., 2008: International Studbook for the Chilean Pudu (<i>Pudu pudu</i>) Volume 11 (2007/2008). Zoo Wuppertal, Wuppertal. Zimmermann, W., 2007: Europäisches Zuchtbuch für den Bucharahirsch (<i>Cervus elaphus bactrianus</i>). Zoologischer Garten Köln, Köln.	

2. Information on developments during 2007 - 2008

Information on developments during 2007

TAG meeting

On Wednesday, 14th September 2007, a Deer TAG meeting was held during the EAZA Annual Conference in Warszawa. The following topics have been presented and discussed:

1. Reports of EEPs, ESBs, monitoring studbooks (MSB) and news
 - Lesser Malayan mouse deer (*Tragulid javanicus*) by Martin van Hees;
 - Philippine spotted deer (*Cervus alfredi*) by Jens-Ove Heckel and Sandra Honigs;
 - Bawean deer (*Axis kuhli*) by Radoslaw Ratajczak;
 - Mesopotamian fallow deer (*Dama mesopotamica*) by Klaus Rudloff;
 - Vietnamese sika deer (*Cervus nippon pseudaxis*) by Klaus Rudloff;
 - Bactrian deer (*Cervus elaphus bactrianus*) by Waltraut Zimmermann;
 - Timor deer (*Cervus timorensis*) by Ryszard Topola;
 - White-lipped deer (*Cervus albirostris*) by Ryszard Topola;
 - Forest reindeer (*Rangifer tarandus fennicus*) by Leif Blomqvist
 - Southern pudu (*Pudu pudu*) by Ulrich Schürer
2. The Chilean Huemul (*Hippocamelus bisulcus*) - in situ project by Ulrich Schürer
3. The Stock of Mesopotamian fallow deer in Israel by Noam Werner
4. Newly described deer and mouse deer species by Roland Wirth and Tomas Pes
5. Collection planning update – the completion of the EAZA Deer TAG Collection Plan for 2005 – 2010 by Klaus Rudloff and Noam Werner

Information on developments during 2008

TAG meeting

On Friday, 19th September 2008, the EAZA Deer TAG conducted a meeting during the EAZA Annual Conference in Antwerp. The following topics have been presented and discussed:

1. Reports of EEPs, ESBs, monitoring studbooks (MSB) and news
 - Lesser Malayan mouse deer (*Tragulid javanicus*) by Mark Hoyer;
 - Philippine spotted deer (*Cervus alfredi*) by Jens-Ove Heckel;
 - Bawean deer (*Axis kuhli*) by Ewa Trzesowska;
 - Mesopotamian fallow deer (*Dama mesopotamica*) by Klaus Rudloff;
 - Vietnamese sika deer (*Cervus nippon pseudaxis*) by Klaus Rudloff;
 - Bactrian deer (*Cervus elaphus bactrianus*) by Waltraut Zimmermann;
 - Timor deer (*Cervus timorensis*) by Ryszard Topola;
 - White-lipped deer (*Cervus albirostris*) by Ryszard Topola;
 - Forest reindeer (*Rangifer tarandus fennicus*) by Leif Blomqvist;
 - Southern pudu (*Pudu pudu*) by André Stadler
2. Investigations about behaviour and nutrition of the Lesser Malayan chevrotain by Antje Semrau
3. News of Mesopotamian fallow deer in Israel by Noam Werner
4. Interesting deer from South East Asia by Tomas Pes
5. Collection planning update – the completion of the EAZA Deer TAG Collection Plan for 2005 - 2010 by Klaus Rudloff and Noam Werner

3. TAG goals for 2009

- Collecting data for an possible ESB for the rare Dybowski Deer (*Cervus nippon dybowskii*).
- Genetical and microbiological investigations of Mesopotamian fallow deer (antler samples are needed).
- Investigations of nutrition problems by moose, reindeer, roe deer and musk deer.
- Checking the collections for pure subspecies of red deer (*Cervus elaphus ssp.*).
- Collection planning update – the completion of the EAZA Deer TAG Collection Plan for 2005 - 2010 including collecting photographs for the deer species and subspecies picture gallery.
- Possible import of new musk deer (*Moschus moschiferus*) from Russia.



Lesser Malayan mousedeer

EEP Annual Report 2007 - 2008



1. Programme information

Lesser Malayan mousedeer

Tragulus javanicus

EEP established in 1988.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Janos Szantho (Amsterdam)

Species Committee members

John Partridge (Bristol)

Rüdiger Dmoch (Frankfurt)

Bengt Holst (Kobenhavn-zoo)

Ole Sommer Bach (Randers)

Angela Glatston (Rotterdam)

Robert Zingg (Zurich)

Veterinary advisor

Mark Hoyer (Amsterdam)

3. Activities

Species Committee

Last election: Over 5 years ago.

Last meeting: 23 September 2004 Kolmarden

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2007

Next edition: 2009

Husbandry guidelines

Published in 1998.



Lesser Malayan mousedeer EEP Annual Report 2007 - 2008



5. Status

Status and developments over the year 2007 - 2008

Lesser Malayan mousedeer
Tragulus javanicus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AMSTERDAM	1.2.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.2.0
		ANTWERPEN	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
		BERLIN-ZOO	1.2.2	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.2
		BERN	2.1.0	0.4.0 (0.0.0)	0.0.0	1.3.0	0.0.0	0.0.0	0.0.0	1.2.0
		BRISTOL	1.2.0	1.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	1.1.0	1.1.0
		BUDAPEST	0.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		COLCHESTER	1.1.0	1.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.1
		DECIN	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
		DUSSELDORF	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
		EDINBURGH	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
		FRANKFURT	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
		FUENGIROLA	1.1.0	1.1.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.1.1
		KOBENHAVN-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
		KOLN	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.0.0
		LEIPZIG	1.0.0	0.1.1 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.1
		LILLE	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
		MUNCHEN	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
		MUNSTER	3.2.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0	1.2.0
		NEUNKIRCHEN	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
		NEWQUAY	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
		PAIGNTON	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
		POZNAN	1.1.0	1.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		SHALDON	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
		ST-AIGNAN	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	0.0.0
		STUTTGART	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
		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 (26)	29.20.2	4.9.3 (0.0.0)	4.4.0	4.4.0	0.0.0	0.0.0	8.5.0	25.24.5

Summary

The EEP population declined in the previous years. It is absolutely necessary to improve breeding results. Some imports of new founders from Asia will be inevitable.



Bactrian wapiti

ESB Annual Report 2007 - 2008



1. Programme information

Bactrian wapiti

Cervus elaphus bactrianus

ESB established in 1995.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Additional comments

Population is too small to maintain the 90% threshold.

2. Programme personnel

European Studbook Keeper

Waltraut Zimmermann (Köln)

3. Publications

Studbook

Recent edition: 2008

Next edition: 2009

Husbandry guidelines

Not yet published.

4. Status

Status and developments over the year 2007 - 2008

Bactrian wapiti

Cervus elaphus bactrianus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ALMATY	2.0.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.1.0	0.0.0	0.0.0	3.1.0
		BERLIN-TIERPARK	3.6.0	5.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	3.0.0	0.1.0	5.7.0
		CHOMUTOV	3.4.0	1.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	3.3.0	1.3.0
		EDINBURGH	2.3.0	1.1.0 (0.0.0)	0.0.0	3.3.0	0.0.0	0.0.0	0.1.0	0.0.0
		KERKRADE	2.4.0	2.2.0 (1.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	1.1.0	2.3.0
*		KINGUSSIE	0.0.0	4.4.0 (1.0.0)	3.8.0	0.0.0	0.0.0	0.0.0	2.10.0	4.2.0
		KÖLN	2.8.0	3.3.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	4.3.0	1.8.0
		MULHOUSE	1.9.0	3.2.0 (3.2.0)	0.0.0	0.3.0	0.0.0	0.0.0	0.2.0	1.4.0
		OBTERRE	4.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.0.0
		TALLINN	7.10.0	6.1.0 (1.0.0)	0.0.0	0.0.0	0.0.0	6.0.0	0.2.0	6.9.0
		Total (10)	26.44.0	26.17.0 (6.2.0)	3.8.0	3.8.0	0.1.0	9.0.0	10.23.0	27.37.0
		Non-EAZA Institutions (0)	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0

Discrepancy notes

Bactrian wapiti

Cervus elaphus bactrianus

TALLINN

The status on 1 January 2007 is 7.10.0 instead of 8.10.0 as listed on 31 December 2006.

Summary

Decreasing population.



Indochinese sika deer

EEP Annual Report 2007 - 2008



1. Programme information

Indochinese sika deer

Cervus nippon pseudaxis

EEP established in 1987.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Klaus Rudloff (Berlin-tierpark)

Species Committee members

Wolfgang Ludwig (Dresden)

Michael Flügger (Hamburg)

Lars Versteegen (Hilvarenbeek)

Clemens Becker (Karlsruhe)

Thomas Kauffels (Kronberg)

Christian Stauffer (Langnau)

Thierry Jardin (Lisieux)

Laurence Colas (Montpellier)

Pierre Moisson (Mulhouse)

Jörg Adler (Münster)

Yves Philippot (Muzillac)

Norbert Fritsch (Neunkirchen)

Patrick Roux (Obterre)

Ivo Firla (Ostrava)

Sabine Boucherie (Overloon)

Christelle Vitaud (Peaugres)

Leszek Antkowiak (Poznan)

Beat Kunz (Winterthur_NE)

Jake Veasey (Woburn)

3. Activities

Species Committee

Last election: No election ever held.

Last meeting: 19 September 2008 Antwerpen

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2008

Next edition: 2009

Husbandry guidelines

Published in 2004.

5. Status

Status and developments over the year 2007 - 2008

Indochinese sika deer
Cervus nippon pseudaxis

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		BERLIN-TIERPARK	1.9.0	5.3.0 (0.1.0)	0.0.0	0.0.0	0.0.0	5.2.0	0.0.0	1.9.0
*		BRATISLAVA	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
		DRESDEN	1.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.2.0	0.2.0	0.0.0
		HAMBURG	7.15.0	9.11.1 (1.2.1)	0.0.0	0.0.0	0.0.0	5.8.0	3.1.0	7.15.0
		HILVARENBECK	10.27.1	6.8.0 (2.0.0)	1.0.0	2.0.0	0.0.0	0.0.0	7.14.1	6.21.0
*		HODONIN_NE	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
		KARLSRUHE	2.11.0	5.5.0 (3.0.0)	0.0.0	1.0.0	0.0.0	1.6.0	0.1.0	2.9.0
		KRONBERG	3.5.0	2.3.1 (2.2.1)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.6.0
		LANGNAU	7.15.0	10.3.1 (3.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	4.2.0	10.16.1
		LISIEUX	14.23.5	0.0.0 (0.0.0)	0.0.0	2.3.0	0.0.0	0.0.0	9.8.0	3.12.5
		MONTPELLIER	3.6.0	3.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	6.8.0
		MULHOUSE	3.11.0	7.8.0 (6.6.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0	3.11.0
		MUNSTER	2.5.0	5.4.0 (1.1.0)	0.0.0	0.0.0	0.0.0	4.0.0	0.1.0	2.7.0
		MUZILLAC	3.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.0.0
		NEUNKIRCHEN	2.4.0	0.5.0 (0.2.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	1.6.0
		OBTERRE	9.16.0	2.3.10 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0	11.16.9
		OSTRAVA	4.6.0	6.2.0 (1.1.0)	0.0.0	1.0.0	0.0.0	4.1.0	1.0.0	3.6.0
		OVERLOON	3.7.0	0.3.1 (0.1.1)	0.0.0	0.0.0	0.0.0	0.0.0	3.1.0	0.8.0
		PEAUGRES	8.20.0	2.13.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	3.4.0	7.29.0
		POZNAN	2.7.0	3.4.1 (1.1.1)	0.0.0	1.0.0	0.0.0	0.0.0	0.2.0	3.8.0
		ROTTERDAM	4.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	3.0.0
*		TREGOMEUR	0.0.0	1.1.0 (0.0.0)	2.3.0	0.0.0	0.0.0	0.0.0	1.1.0	2.3.0
		USTI-NAD-LABEM	2.6.0	3.2.0 (2.0.0)	2.0.0	0.0.0	0.0.0	1.1.0	1.0.0	3.7.0
		WALDKIRCH_NE	1.8.0	2.2.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	2.1.0	2.9.0
		WINTERTHUR_NE	3.4.0	3.2.0 (0.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	5.1.0	1.4.0
		WOBURN	8.15.0	3.2.0 (1.2.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	9.15.0
		Total (26)	102.224.6	77.86.15 (23.20.5)	8.3.0	8.3.0	0.0.0	21.20.0	43.45.1	92.225.15

Summary

- Problems remain similar to last years:
- Individual identification is problematic.
 - Estimated age of several animals.
 - Unknown parentage.
 - Surplus males.

Recommendations for the next year(s):

- Bloodline exchange between different breeding groups.
- Introduction of male groups in one or more zoos or game parks.



Mesopotamian fallow deer

EEP Annual Report 2007 - 2008



1. Programme information

Mesopotamian fallow deer

Dama mesopotamica

EEP established in 1989.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Klaus Rudloff (Berlin-tierpark)

Species Committee members

Hermann Will (Chemnitz)

Premysl Rabas (Chomutov)

Lars Versteegen (Hilvarenbeek)

Noam Werner (Jerusalem)

Shmulik Yedwab (Jerusalem)

Clemens Becker (Karlsruhe)

Gisela von Hegel (Karlsruhe)

Alexander Kantorovich (Kiriati-motzkin)

Thomas Kauffels (Kronberg)

Thierry Jardin (Lisieux)

Ryszard Topola (Lodz)

Xavier Legendre (Obterre)

Thomas Henning (Springe_NE)

Marianne Holtkötter (Stuttgart)

Wolfram Rietschel (Stuttgart)

Radoslaw Ratajszczak (Wroclaw)

3. Activities

Species Committee

Last election: No election ever held.

Last meeting: 19 September 2008 Antwerpen

Conservation activities

Not specified.

Research activities

Research: Comparative genetical, anatomical and morphological studies of Mesopotamian and European fallow deer.

4. Publications

Studbook

Recent edition: 2008

Next edition: 2009

Husbandry guidelines

Published in 2004.



Mesopotamian fallow deer EEP Annual Report 2007 - 2008



5. Status

Status and developments over the year 2007 - 2008

Mesopotamian fallow deer
Dama mesopotamica

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		BERLIN-TIERPARK	2.7.0	1.2.0 (0.0.0)	0.2.0	0.0.0	0.0.0	0.0.0	0.2.0	3.9.0
		CHEMNITZ	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.0.0	0.1.0	1.1.0
		CHOMUTOV	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
		HILVARENBEEK	4.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	3.5.0
		JERUSALEM	19.33.0	16.15.2 (3.0.1)	0.0.0	0.0.0	10.18.0	23.27.0	5.3.0	14.36.1
		KARLSRUHE	0.5.0	3.1.0 (3.1.0)	0.0.0	0.0.0	1.0.0	0.0.0	0.1.0	1.4.0
		KIRIAT-MOTZKIN	1.2.0	3.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	4.1.0
		KRONBERG	11.19.0	14.10.0 (2.2.0)	0.0.0	5.5.0	0.0.0	4.5.0	2.2.0	12.15.0
		LISIEUX	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
*		LODZ	0.0.0	0.0.0 (0.0.0)	2.2.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		MUNCHEN	2.10.0	6.5.0 (2.2.0)	0.0.0	1.5.0	0.0.0	0.0.0	0.0.0	5.8.0
		OBTERRE	2.8.1	4.2.4 (2.0.2)	0.0.0	0.0.0	0.0.0	0.0.0	2.4.0	2.6.3
		SPRINGE_NE	9.12.0	6.5.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	14.16.0
		STUTTGART	4.15.0	6.4.0 (1.1.0)	0.0.0	0.0.0	0.0.0	2.3.0	1.2.0	6.13.0
*		SZEGED	0.0.0	0.0.0 (0.0.0)	1.3.0	0.0.0	0.0.0	0.0.0	1.3.0	0.0.0
*		WROCLAW	0.0.0	1.1.0 (1.0.0)	3.3.0	0.0.0	0.0.0	0.0.0	0.0.0	3.4.0
		Total (16)	58.119.1	60.46.6 (14.6.3)	6.10.0	6.10.0	11.18.0	30.35.0	13.20.0	72.122.4

Summary

Programme difficulties:

- Unknown parentage in large groups and groups with more than one male in extensive enclosures.

Programme recommendations:

- Finding and including some smaller zoos and/or game parks for keeping of male groups.
- Contacts to Israeli holders and Arabian Emirates because in relation to the exchange of animals.
- Poznan Zoo agrees to prepare the quarantine under EU conditions.

Notes

The animal transfers with non-EEP zoos were made between and with the Israeli Wildlife Reserves, Tiergarten Suhl/D, Wiesa/D, Tiergarten Ostrittum/D, Tiegehege Reken/D, Tiergarten Ulm/D, Institut of Polish Akademie of Sciences Popielno, Wejsuny/Poland.



Forest reindeer

ESB Annual Report 2007 - 2008



1. Programme information

Forest reindeer

Rangifer tarandus fennicus

ESB established in 2001.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

European Studbook Keeper

Leif Blomqvist (Helsinki)

3. Publications

Studbook

Recent edition: 2008

Next edition: 2009

Husbandry guidelines

Not yet published.

4. Status

Status and developments over the year 2007 - 2008

Forest reindeer

Rangifer tarandus fennicus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AHTARI	4.8.0	5.6.0 (3.1.0)	0.0.0	5.5.0	0.0.0	0.0.0	0.0.0	1.8.0
		ARNHEM	3.4.0	4.1.0 (0.0.0)	1.0.0	5.0.0	0.0.0	0.0.0	0.0.0	3.5.0
		BERN	1.3.0	0.3.0 (0.1.0)	0.2.0	0.1.0	0.0.0	0.0.0	0.1.0	1.5.0
		BORAS	4.3.0	5.1.0 (3.0.0)	0.1.0	1.0.0	0.0.0	0.0.0	3.2.0	2.3.0
*		HAN-SUR-LESSE	0.0.0	0.0.0 (0.0.0)	4.0.0	0.0.0	0.0.0	0.0.0	4.0.0	0.0.0
		HELSINKI	2.7.0	2.4.0 (0.0.0)	1.0.0	2.2.0	0.0.0	0.0.0	1.5.0	2.4.0
		HUNNEBOSTRAND	1.8.0	1.7.0 (1.2.0)	0.0.0	0.5.0	0.0.0	0.0.0	0.0.0	1.8.0
		JARVSO	3.1.0	1.0.0 (0.0.0)	1.2.0	0.0.0	0.0.0	0.0.0	3.0.0	2.3.0
		KERKRADE	1.2.0	2.1.0 (1.0.0)	1.3.0	2.0.0	0.0.0	0.0.0	1.0.0	0.6.0
		KINGUSSIE	4.0.0	0.0.0 (0.0.0)	9.5.0	0.0.0	0.0.0	0.0.0	8.3.0	5.2.0
		LYCKSELE	3.1.0	1.0.0 (0.0.0)	0.2.0	0.0.0	0.0.0	0.0.0	1.1.0	3.2.0
		MIERLO	4.0.0	0.0.0 (0.0.0)	1.0.0	4.0.0	0.0.0	0.0.0	1.0.0	0.0.0
*		MOSKVA	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.2.0	0.0.0	0.2.0	1.0.0
		RANUA	1.3.0	2.4.0 (0.0.0)	0.0.0	0.3.0	0.0.0	0.0.0	0.1.0	3.3.0
		RIGA	5.0.0	0.2.0 (0.1.0)	0.3.0	0.0.0	0.0.0	0.0.0	4.0.0	1.4.0
		ROTTERDAM	4.0.0	0.0.0 (0.0.0)	3.0.0	2.0.0	0.0.0	0.0.0	1.0.0	4.0.0
		TALLINN	0.2.0	0.0.0 (0.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.0.0	0.0.0
		Total (17)	40.42.0	23.29.0 (8.5.0)	21.18.0	21.18.0	1.2.0	0.0.0	27.15.0	29.53.0

Summary

A total of 52 (23.29) calves have been born during the two years' period, 25% of which survived. In addition to calf mortality, the population lost 29 additional (19.10) adult and sub-adult animals and the number of deceased reindeer thus totaled 27.15. The high number of deceased animals was mainly due to losses of several adult animals in Highland Wildlife Park, Helsinki, Riga and Han-sur-Les which lost their entire male group.

Despite the high number of losses, 39 transfers took place during 2007-2008, the most important of which was the arrival of 1.2 wild caught animals which arrived at the breeding center of Moscow Zoo in 2008. Unfortunately both females died in the breeding centre shortly after their arrival and



Forest reindeer

ESB Annual Report 2007 - 2008



Moscow is therefore keeping the highest ranking animal in the collection without a breeding partner. As the current stock descends of only less than 10 founders, any new recruitment is essential for the population. It is therefore a priority issue for the following year to provide Moscow with captive-bred females and allow them to breed the potential founder. The next step will then be, to disperse the offspring of the wild-caught stag to as many holders as possible.

Due to the high mortality, the captive stock decreased by seven animals in 2008 compared to 2007 and stood at 29.53 living individuals at the end of the monitored period. The number of holders also decreased to 15 as three previous holders (Mierlo, Tallinn and Han-sur-Lesse) stopped keeping the species while only one new holder joined the programme. This is the first time since 1999, that the captive population has shown a negative trend. As the current population, however, contains several young animals and few older animals at the end of their life span, there are good possibilities that the negative trend can again be reversed.

Notes

Full report with births, deaths and transfers in 2007 and 2008 have been published by the studbook keeper in:

The European forest reindeer - not to be confused with Santa's reindeer. In: The European forest reindeer 2007. 15pp. Nordens Ark Foundation 2008

An 2008 update for captive forest reindeer. Helsinki Zoo Ann. Rep. 2008: 21-29. Helsinki Zoo 2009



Chilean pudu

EEP Annual Report 2007 - 2008



1. Programme information

Chilean pudu

Pudu pudu

EEP established in 1985.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Ulrich Schürer (Wuppertal)

Species Committee members

Frank Rietkerk (Apeldoorn)
Hans Fradrich (Berlin-zoo)
Ragnar Kuhne (Berlin-zoo)
John Partridge (Bristol)
Mark Pilgrim (Chester)
Frank Brandstatter (Dortmund)
Wolf Bartmann (Dortmund)
Graham Catlow (Edinburgh)
Pierre de Wit (Emmen)
Siegfried Czernay (Halle)
Waltraut Zimmermann (Köln)
Bjarne Klausen (Odense)
Krzysztof Kazanowski (Opole)
Neil Bemment (Paignton)
Jean-Luc Berthier (Paris-jardin)
Tomas Pes (Plzen)
Tomas Kopic (Praha)
Ferdinand Schoeman (Pretoria_NE)
Angela Glatston (Rotterdam)
Rainer Revers (Salzburg-zoo)
John Ray (Twycross)
Magdalena Gajownik (Warszawa)

Nutritional advisor

Joeke Nijboer (Rotterdam)

Veterinary advisor

Arne Lawrenz (Wuppertal)

3. Activities

Species Committee

Last election: No election ever held.

Last meeting: 9 September 2007 Warszawa

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2007

Next edition: 2009

Husbandry guidelines

Published in 2000.

5. Status

Status and developments over the year 2007 - 2008

Chilean pudu

Pudu puda

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AGRATE	0.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		AMSTERDAM	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		APELDOORN	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		BANHAM	0.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		BELFAST	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		BERLIN-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	0.0.0
		BRISTOL	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		BURFORD	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		CHESTER	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		DORTMUND	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		DOUE-FONTAINE	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		EDINBURGH	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		EMMEN	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		HALLE	3.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		HAMERTON	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		HUNNEBOSTRAND	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		KOLN	1.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		MARWELL	3.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		ODENSE	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		OPOLE	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		PAIGNTON	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		PARIS-JARDIN	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		PLZEN	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		PRAHA	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		PRETORIA_NE	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		ROTTERDAM	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		TWYCROSS	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		WARSZAWA	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		WUPPERTAL	8.17.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		Total (29)	49.49.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0

Summary

Not specified.

Notes

The EEP coordinator has not updated the status table. The population at 31 December 2008 was indicated to be 43.53.0.