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 Felid TAG

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EAZA Felid TAG Annual Report 2007 - 2008

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

TAG chair: Alex Sliwa, Koln — sliwa@koelnerzoo.de

TAG vice-chair: Gregory Breton, Nesles — gregory.breton@parc-des-felins.com
Andre Stadler, Wuppertal — a.stadler@zoo-wuppertal.de

TAG members:
David Barclay (Edinburgh)
Leif Blomqvist (Helsinki)
Pavel Brandl (Praha)
Sarah Christie (London)
Rüdiger Dmoch (Frankfurt)
Neil Dorman (Twycross)
Malcolm Fitzpatrick (London)
Michael Flügger (Hamburg)
Thierry Jardin (Lisieux)
Jacques Kaandorp (Hilvarenbeek)
Ute Magiera (Osnabruck)
Sean Mc Keown (Dubai-wc)
Stewart Muir (Newquay)
Milada Petru (Decin)
Mark Pilgrim (Chester)
Martina Raffel (Munster)
Sandra Reichler (Heidelberg)
Raymond van der Meer (Amersfoort)
Lars Versteege (Hilvarenbeek)
Ben Warren (Bekesbourne)

TAG advisors:
General
Jennifer Ringleb, Institute for Zoo Biologie and Wildlife research, Reproductive biology of cats
Julia Stagegaard, Ree Park - Ebeltoft Safari, Veterinary

Behavioural

Taxonomy

Veterinary

Nutritional

Conservation

Research

Educational

Current EEPs:
Southern cheetah (*Acinonyx jubatus jubatus)*
Northern cheetah (*Acinonyx jubatus soemmerringi)*
Asian golden cat (*Catopuma temminckii)*
Sand cat (*Felis margarita)*
Black-footed cat (*Felis nigripes)*
Margay (*Leopardus wiedii)*
Clouded leopard (*Neofelis nebulosa)*
Geoffroy's cat (*Oncifelis geoffroyi)*
Pallas' cat (*Otocolobus manul)*
Asian lion (*Panthera leo persicus)*
North Chinese leopard (*Panthera pardus japonensis)*
Sri Lankan leopard (*Panthera pardus kotiya)*
Amur leopard (*Panthera pardus orientalis)*
Persian leopard (*Panthera pardus saxicolor)*
Tiger (*Panthera tigris)*
Fishing cat (*Prionailurus viverrinus)*
Snow leopard (*Uncia uncia)*

Current ESBs:
Oncilla (*Leopardus tigrinus)*
Eurasian lynx (*Lynx lynx)*
Jaguar (*Panthera onca)*
Rusty-spotted cat (*Prionailurus rubiginosus phillipsi)*

TAG meeting:
Date of last meeting: 17 Marts 2007
Last meeting hosted at Le Parc des Felins.

Regional Collection Plan: Has a RCP been published? No

Next edition to be published in 2010.

Publications: Not specified.

2. Information on developments during 2007 - 2008

2007
- Midyear meeting hosted by Parc de Felins (Nesles).
- The Cheetah EEP is split up into two EEPs.
- Hybrid tigers are discovered within the Amur tiger EEP population.

Coordinator changes:
- Sean McKeown (Dubai-WC) appointed as Northern cheetah EEP coordinator.
- Jacques Kaandorp (Hilvarenbeek) appointed as Southern cheetah EEP coordinator.
- Malcolm Fitzpatrick (London) appointed as new Tiger EEP coordinator.

2008
Coordinator changes:
- Ben Warren (Bekesbourne) appointed as new Clouded leopard EEP coordinator.
- Neville Buck (Port-Lympne) appointed to run the scottish wildcat MON-P.
- Andre Stadler (Wuppertal) appointed as new Black-footed cat EEP coordinator.

3. TAG goals for 2009

- Ensure the improved running of a number of programmes.
- Regular midyear meetings to work on solving the problems encountered.
- Establish programmes for recommended species of endangered taxa and to phase out non-recommended taxa of IUCN status "Least Concern".
- Continue with EEP evaluations.
- Publish the RCP (planned for 2010).

Southern cheetah
EEP Annual Report 2007 - 2008

1. Programme information

Southern cheetah *Acinonyx jubatus jubatus*

EEP established in 2008.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Jacques Kaandorp (Hilvarenbeek)

Species Committee members

Mark Challis (Belfast)
Bo Kjellson (Boras)
Brice Lefaux (Doue-fontaine)
Dana Holeckova (Dvur-kralove)
Andreas Knieriem (Hannover)
Lars Versteege (Hilvarenbeek)
Alex Sliwa (Koln)
Lydia Kolter (Koln)
Thierry Petit (Les-mathes)
Eric Bairrao Ruivo (Lisboa-zoo)
David Field (London)
Christelle Vitaud (Peaugres)
Jane Edmonds (Sharjah)
Anna Zlamal (Warszawa)
Hanneke Louwman (Wassenaar-wbc)

Nutritional advisor

Kristina Johansen (Ebeltoft)

Veterinary advisor

Chris Walzer (Wien-vet_NE)

3. Activities

Species Committee

Last election: 2005
Last meeting: 15 September 2008 Antwerpen

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

Southern cheetah
Acinonyx jubatus jubatus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
*		AGRATE	0.0.0	0.0.0 (0.0.0)	0.2.0	0.0.0	1.1.0	0.0.0	0.0.0	1.3.0
		ALMATY	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
		AMERSFOORT	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0	0.0.0
		AMNEVILLE	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
		ARNHEM	3.3.0	0.0.0 (0.0.0)	1.0.0	1.2.0	0.0.0	0.0.0	1.0.0	2.1.0
		ATHINAI	2.2.0	1.2.0 (1.2.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		AUGSBURG	2.0.0	0.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		BANHAM	1.0.0	2.2.0 (0.0.0)	3.2.0	4.1.0	0.0.0	0.0.0	0.0.0	2.3.0
		BARCELONA-ZOO	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
		BASEL	2.2.0	4.3.0 (0.2.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	5.3.0
		BELFAST	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
		BERGAMO_NE	5.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	4.2.0
		BERLIN-TIERPARK	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
		BEWDLEY	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
		BORAS	2.2.0	2.1.0 (1.0.0)	3.2.0	0.2.0	0.0.0	0.0.0	1.0.0	5.3.0
*		BOSSIERE-DORE	0.0.0	0.0.0 (0.0.0)	0.3.0	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0
		BROXBOURNE	1.2.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.1.0	0.0.0	2.1.0
		CHAMPREPUS	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
		CHARD	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
		COLCHESTER	2.3.0	0.1.4 (0.0.4)	1.0.0	2.2.0	0.0.0	0.0.0	0.0.0	1.2.0
		DALTON-FURNESS	2.2.0	0.0.0 (0.0.0)	0.0.0	2.1.0	0.0.0	0.0.0	0.1.0	0.0.0
		DEIGNE	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
		DOUE-FONTAINE	1.3.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.2.0
		DRESDEN	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
		DVUR-KRALOVE	5.6.0	0.0.0 (0.0.0)	1.1.0	4.2.0	0.0.0	0.0.0	0.0.0	2.5.0
		EBELTOFT	6.3.0	5.4.0 (0.0.0)	1.5.0	3.2.0	0.0.0	0.0.0	1.0.0	8.10.0
		EBERSWALDE	1.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	1.0.0	1.1.0
*		ESKILSTUNA	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
*		ESTEPONA	0.0.0	0.0.0 (0.0.0)	1.3.0	0.0.0	0.0.0	0.0.0	0.1.0	1.2.0
		FOTA	6.11.0	3.3.0 (0.0.0)	1.0.0	3.5.0	0.0.0	0.0.0	2.0.0	5.9.0
*		GDANSK	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
		HAMERTON	3.4.0	0.3.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.7.0
		HANNOVER	0.3.0	0.0.0 (0.0.0)	2.1.0	1.1.0	0.0.0	0.0.0	0.2.0	1.1.0
		HERBERSTEIN	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
		HILVARENBEEK	4.8.0	0.1.0 (0.0.0)	2.2.0	3.0.0	0.0.0	0.0.0	0.1.0	3.10.0
		JERUSALEM	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
		JURQUES	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	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
		KERKRADE	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
		KESSINGLAND	2.1.0	3.2.1 (0.0.1)	2.1.0	3.2.0	0.0.0	0.0.0	1.0.0	3.2.0
		KOLN	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
		KREFELD	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
		LA-FLECHE	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
		LIBEREC	1.0.0	0.0.0 (0.0.0)	1.1.0	1.1.0	0.0.0	0.0.0	0.0.0	1.0.0
		LISBOA-ZOO	3.2.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.1.0	3.1.0
		LODZ	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
*		LYMPNE	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
		MADRID-ZOO	1.1.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0
		MARWELL	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
		MECHELEN	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

	MONCHIQUE	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0	0.0.0
	MONTPELLIER	2.1.0	0.0.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	0.1.0	4.0.0
	MOSKVA	4.3.0	4.2.0 (1.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	7.4.0
	MULHOUSE	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
	MUNCHEN	1.0.0	0.0.0 (0.0.0)	1.1.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
	MUNSTER	2.5.0	3.6.0 (0.0.0)	0.3.0	1.4.0	0.0.0	0.0.0	1.0.0	3.10.0
	NESLES	2.3.0	0.0.0 (0.0.0)	0.1.0	0.0.0	2.0.0	0.0.0	1.3.0	3.1.0
	NEUWIED	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
	NOVOSIBIRSK	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
	NURNBERG	1.2.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.2.0	1.1.0
	NYIREGYHAZA	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
	OBTERRE	1.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.0.0
	OLDENBURG_NE	2.3.0	0.0.0 (0.0.0)	1.2.0	1.2.0	0.0.0	0.1.0	0.2.0	2.0.0
	OLOMOUC	2.3.0	3.3.0 (2.0.0)	1.2.0	3.5.0	0.0.0	0.0.0	0.0.0	1.3.0
	OPOLE	1.1.0	0.0.0 (0.0.0)	2.1.0	1.0.0	0.0.0	0.0.0	0.1.0	2.1.0
	OVERLOON	1.1.0	0.0.0 (0.0.0)	2.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.1.0
	PAIGNTON	0.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0
	PEAUGRES	6.8.0	7.3.1 (2.2.1)	1.1.0	5.2.0	0.0.0	0.0.0	2.1.0	5.7.0
	PONT-SCORFF	0.1.0	0.0.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
	PRAHA	2.4.0	4.5.0 (0.0.0)	0.1.0	1.1.0	0.0.0	2.2.0	1.1.0	2.6.0
	ROSTOCK	5.2.0	0.0.0 (0.0.0)	1.1.0	2.1.0	0.0.0	0.0.0	1.1.0	3.1.0
	SABLES-OLONNE	1.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.1.0	0.0.0
	SALZBURG-ZOO	3.1.0	3.0.0 (0.0.0)	0.3.0	0.3.0	0.0.0	0.0.0	0.0.0	6.1.0
	SIGEAN	1.3.0	0.0.0 (0.0.0)	0.2.0	0.1.0	0.0.0	0.0.0	0.2.0	1.2.0
	STUTTGART	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
*	SZEGED	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
	SAARBRUCKEN	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
	TABERNAS	0.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.1.0	0.0.0	1.0.0
	THOIRY	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
	USTI-NAD-LABEM	1.2.0	0.0.0 (0.0.0)	1.1.0	0.1.0	0.0.0	0.0.0	0.2.0	2.0.0
	WARSZAWA	2.3.0	0.0.0 (0.0.0)	1.0.0	2.1.0	0.0.0	0.0.0	0.0.0	1.2.0
	WHIPSNADE	1.0.0	0.0.0 (0.0.0)	2.2.0	1.2.0	0.0.0	0.0.0	2.0.0	0.0.0
	WIEN-ZOO	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
	WUPPERTAL	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
	ZAGREB	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
	Total (85)	143.140.0	44.41.6 (7.7.6)	56.48.0	56.48.0	3.1.0	2.5.0	24.24.0	157.146.0

Summary

Programme difficulties:
Many of the current holders do not manage to breed with their animals, due to lack of facilities.

At the EAZA Annual Conference in Antwerp, September 2008, a presentation was given on how to breed cheetah, but still many questions regarding this subject are asked. Many zoos want to house a breeding pair, although they only have one exhibit or just two adjacent exhibits. In the view of the EEP to breed successfully several exhibits are needed and/or males should be separated totally and only be introduced to females when females are in heat. Only 13 out of the 83 participants did breed in 2008.

Programme recommendations:
The EEP has issued many recommendations resulting in 104 transfers in order to enforce breeding in as many institutions as possible depending on the genetic importance of the animals. There should still be a reluctance to stop breeding with all over represented animals, because a certain number of births are needed to maintain a stable population.
There is still a demand for cheetah as well from current holders and new participants.
A zoo with only one or two adjacent enclosures should not have the ambition to breed, but rather house a single sex group.

Northern cheetah
EEP Annual Report 2007 - 2008

1. Programme information

Northern cheetah *Acinonyx jubatus soemmeringii*

EEP established in 2008.

Goal(s)

Percentage of gene diversity 92% saved in 20 years.

Target population size A= 200 and B= 250

Additional comments

There is a strong possibility that this taxon will be the subject of a reintroduction programme within the coming 4 to 5 years.

2. Programme personnel

Species Coordinator

Sean Mc Keown (Dubai-wc)

Species Committee members

Catrin Hammer (Alwabra)
Adrie van Zanten (Amersfoort)
Kevin Buley (Chester)
Jens-Ove Heckel (Landau)
Thierry Petit (Les-mathes)
Malcolm Fitzpatrick (London)
Jane Edmonds (Sharjah)

Veterinary advisor

Chris Walzer (Wien-vet_NE)

3. Activities

Species Committee

Last election: No election ever held.
Last meeting: 18 September 2008 Antwerpen

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2008
Next edition: 2009

Husbandry guidelines

Published prior to 1996.

5. Status

Status and developments over the year 2007 - 2008

Northern cheetah
Acinonyx jubatus soemmeringii

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		ALWABRA	3.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.2.0
*		AMERSFOORT	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
*		CHESTER	0.0.0	0.0.0 (0.0.0)	4.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.0.0
		DUBAI-WC	16.14.0	6.11.0 (0.3.0)	0.0.0	1.3.0	1.0.0	1.2.0	2.2.0	19.15.0
		HILVARENBEEK	3.2.0	0.0.0 (0.0.0)	0.0.0	3.1.0	0.0.0	0.0.0	0.1.0	0.0.0
		LANDAU	1.1.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.1.0	2.1.0
		LES-MATHES	2.4.0	8.6.0 (1.3.0)	2.0.0	1.0.0	0.0.0	0.0.0	1.1.0	9.6.0
		SHARJAH	19.10.0	4.4.1 (1.1.1)	0.0.0	2.0.0	1.0.0	2.0.0	0.0.0	19.13.0
		WADI-AL-SAFA_NE	5.4.0	7.10.0 (0.4.0)	0.0.0	3.1.0	1.1.0	1.0.0	0.0.0	9.10.0
*		WHIPSNADE	0.0.0	0.0.0 (0.0.0)	2.4.0	0.0.0	0.0.0	0.0.0	0.0.0	2.4.0
		Total (10)	49.37.0	25.31.1 (2.11.1)	10.5.0	10.5.0	3.1.0	4.2.0	3.5.0	68.51.0

Discrepancy notes

Northern cheetah
Acinonyx jubatus soemmeringii

DUBAI-WC	2 females were transferred out to Sir Bani Yas Island
SHARJAH	2 males were transferred out to Sir Bani Yas Island

Summary

Population demographics:

The Northern cheetah EEP population continued to grow during the years 2007 and 2008 and had reached 119 (68.51) animals, its highest ever, at the end of 2008. The large number of births and a low number of deaths within the EEP population fuelled this growth. At the start of 2007 there were seven institutions taking part in the Northern cheetah EEP. Three new holders (Amersfoort, Chester and Whipsnade) joined and one left (Hilvarenbeek) the programme leaving 9 holders at the end of 2008. In late 2008 Sir Bani Yas Island, Abu Dhabi, United Arab Emirates received 2 males and 2 females on loan as part of programme to release carnivores into a semi-wild environment. They are expected to join the Northern cheetah EEP programme as non-EAZA participants during 2009.

As of the 31 December 2008 there were 119 cheetahs held within 9 institutions, which is a population increase of 41% over the 1 January 2007 northern cheetah numbers of 85 (48.37) animals in 7 collections. During these two years there were 57 (25.31.1) cheetah cubs born in 20 litters at 4 institutions. Fourteen of these cubs died within the first month which is a neonatal death rate of 25%. During the 2 year period there were further 8 (3.5) adult cheetah deaths of which 3 were 'Euthanasia' and 3 were 'Trauma'.

Within the Northern cheetah EEP the number of captive-bred animals continues to increase while the wild-caught cheetah numbers are slowly decreasing. The population growth within this EEP is the result of captive births within the programme. The age distribution is not very stable at present but most of the animals in the older age classes are wild-caught and those in the younger age classes are mainly captive- bred. Also the mean generation time is nearly seven years and northern cheetahs have only bred successfully in captivity within the last 10 years. As the programme progresses through another generation then the age pyramid should form a more stable or growing population format.

Genetic analysis:

The EEP population has 27 founders and the potential to add 20 additional founders. However, the founder equivalent is low and this problem is augmented by the low effective population size (Ne/N). Twenty potential founders have not bred and this amounts to 16% of the present living population. However, most of the long-term participating institutions are breeding cheetahs and an improvement can be expected with the addition of the new holders who have dedicated cheetah-breeding facilities.
The mean inbreeding coefficient is 0.0076, which is low, having decreased from 0.0187 in 2007 with the addition of another founder in 2008. There is the potential to lower the inbreeding coefficient further if the potential founders are utilised to their optimum. Large litter sizes in cheetah also make it more difficult to manage the population genetically as founders can become over represented quickly.

Genetic summary of the Northern cheetah EEP:

	Current	Potential
Founders	27	20 additional
Founder genome equivalents	10.62	41.32
Founder genome surviving	20.28	41.32
Gene diversity retained	0.953	0.988
Population mean kinship	0.0471	

Mean inbreeding	0.0076
% of pedigree known	100.0

Some of the over represented founders (some still alive and reproductive) will not be recommended for future breeding. However, many of potential founders are getting towards the end of their reproductive life and need to get breeding soon. This may require the use of artificial techniques including artificial insemination.

One of the main challenges for the Northern cheetah EEP programme will be to expand the number of holding institutions over the coming years. The programme requires a minimum of 20 holders, each with a holding capacity of least 10 animals including adults and young. Three more institutions have also expressed an interest in joining this EEP programme during the coming year. Only 4 existing holders regularly breed cheetah and maximising the full breeding potential of all holders is also essential for the future development of the programme.

Perhaps the most exciting development within the programme is the proposed release in early 2009 of 3 or 4 cheetah within a 47 km² fenced area on Sir Bani Yas Island, Abu Dhabi, UAE. There are over 1000 gazelles roaming freely within this area and they should provide suitable prey for the cheetah to hunt in a semi -natural conditions. This will hopefully further our understanding of the processes required to reintroduce captive bred cheetahs into the wild.

Asian golden cat
EEP Annual Report 2007 - 2008

1. Programme information

Asian golden cat *Catopuma temminckii*

EEP established in 1993.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Sandra Reichler (Heidelberg)

Species Committee members

Mark Challis (Belfast)
Ian Valentine (Edinburgh)
Lubomir Melichar (Liberec)
Sandra Silinski (Munster)
Martin van Wees (Rotterdam)
Hanneke Louwman (Wassenaar-wbc)

Veterinary advisor

Arne Lawrenz (Wuppertal)

3. Activities

Species Committee

Last election: No election ever held.
Last meeting: 19 September 2003 Leipzig

Conservation activities

Not specified.

Research activities

Research activities in 2007:
In spring we finally got results from the genetical analysis regarding the subspecies problem done by Arnd Schreiber and his team from Heidelberg University. The results are not very helpful, but show that there is a relatively high genetical discrepancy between the animals from China and the others with unknown origin. Therefore it could be recommended to keep these both EEP populations still separated. It is now interesting how the difference between the Vietnam animals and the others with unknown origin is.

The PHD study on activity patterns and intraspecific behaviour in Asiatic golden cats is continued by Dipl.-Biol. Tobias Ehlert, University Frankfurt.

4. Publications

Studbook

Recent edition: 2006
Next edition: 2009

Husbandry guidelines

Not yet published.

5. Status

Status and developments over the year 2007 - 2008

Asian golden cat
Catopuma temminckii

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		BELFAST	2.0.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0
		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
		GREAT-YARMOUTH	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
		HEIDELBERG	1.2.0	0.0.0 (0.0.0)	0.1.0	0.0.0	1.0.0	0.0.0	0.1.0	2.2.0
		LIBEREC	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
		MUNSTER	1.1.0	0.0.3 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.3	1.1.0
		NESLES	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
		ROTTERDAM	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
		WUPPERTAL	1.3.0	2.1.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	3.3.0
		Total (9)	10.8.0	2.2.3 (0.0.0)	1.1.0	1.1.0	1.0.0	0.0.0	2.1.3	11.9.0

Summary

2007

Summary:
On 31.12.2007 there were 19 (12.7) Asiatic golden cats in 9 European institutions. From this number 4.2 animals in 4 institutions probably belong to the subspecies “tristis”.

Again the pair in Wuppertal successfully bred, a young male kitten was born and mother-reared by breeding female Feline (T133). The pair at Munster Zoo had offspring for the first time. Unfortunately the kittens were stillborn, but this gives hope that a new successful breeding pair can be established. The parents are wild born animals from Vietnam; therefore offspring would be very important for the EEP. In January 2007 Heidelberg Zoo imported a non related young male from Singapore Zoo as a new partner for the breeding female in Heidelberg. The origin of this male is known, his parents are wild born in Vietnam. The pairing of this male with the Heidelberg female is still going on and needs a lot of time and patience to avoid any aggression and risk.

On 15 August 2007 the female Golden cat born 2006 in Wuppertal was transferred to Heidelberg to become the new female for the male born 2005.

Problems:
We still need more successful breeding pairs to at least keep the population stable . The number of animals is still too low and animals with new blood lines are necessary to keep population genetically healthy .

In Heidelberg Zoo an accident happened with the two young animals born in 2005. The male injured the female during mating at night and unfortunately the female died. All golden cat enclosures are equipped with cameras , therefore it could exactly be observed what has happened . There was no aggression between both animals before the accident . The male sometimes tried to mate with the female who then avoided the male as she was not in oestrus. It seems that the high sexual dimorphism could become a serious risk when the male is too much fixed on sexual behaviour e.g. during adolescence. Therefore although two animals seem to harmonise well , holders should be careful to let a pair together day and night out of the mating season. The female died by this accident was not a genetically valuable animal as it was highly inbred , but it again shows how difficult the management of this species and how low the knowledge of its behaviour is .

Recommendations for 2008:
Hopefully the pair at Munster Zoo will continue breeding . Heidelberg should continue with the establishment of the two possible breeding pairs . Rotterdam and Nesles should try to start breeding with their pairs .
It was decided by the Species Committee that the golden cats imported from China (subspecies tristis) should be separated from the rest of the population.

2008

Summary:
On 31.12.2008 there were 20 (11.9) Asiatic golden cats in 8 European institutions. From this number 4.3 animals in 4 institutions probably belong to the subspecies “tristis”.

The experienced breeding pair in Wuppertal had offspring again: two kittens were born on 24.07.08 and mother-reared. In Nesles a female kitten was

born on 04.07.08. This is the first offspring of the parents T124 and T141 which belong to the subspecies “tristis”. Unfortunately no breeding with the two pairs in Heidelberg.
In January 2008 the old male in Liberec and the breeding male in Munster died. Especially the death of the wild born male in Munster which has started breeding last year is a serious loss for the EEP population. Before he died he mated with the female which gave birth to a kitten in March 2008. But unfortunately this kitten died at the same day by pneumonia. It was very important to find a new male for the valuable female at Munster, therefore it was recommended to send the male “Lao” (T137) from Belfast to Munster as soon as possible. This transfer was carried out in August 2008.

Problems:
We still need more successful breeding pairs to at least keep population stable . The number of animals is still too low and animals with new blood lines are necessary to keep population genetically healthy .
The new breeding success in Nesles is pleasant , but these animals belong to the subspecies “tristis” and there are no potential unrelated partners within the European population at the moment . Therefore the future of this subspecies in European institutions is uncertain .

Recommendations for 2009:
Hopefully the pair at Munster Zoo will start breeding . Heidelberg should continue with the establishment of the two possible breeding pairs . It was decided by the EEP committee that the golden cats imported from China (subspecies “tristis”) should be separated from the rest of the population.

Sand cat

EEP Annual Report 2007 - 2008

1. Programme information

Sand cat *Felis margarita*

EEP established in 2000.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Ute Magiera (Osnabruck)

Species Committee members

Catrin Hammer (Alwabra)
John Partridge (Bristol)
John Pullen (Marwell)
Xavier Vaillant (Pont-scorff)
Tatjana Ivasenko (Riga)
Jane Edmonds (Sharjah)
Ulrich Schürer (Wuppertal)

Veterinary advisor

Sharon Redrobe (Bristol)

3. Activities

Species Committee

Last election: 2007
Last meeting:

Conservation activities

The Sahara Conservation Fund (SCF) initiated a project for getting more knowledge about the “Ecology and conservation of Saharan carnivores” in Niger (Termit/Tin Toumma). The project runs in cooperation with the Zoological Society of London (ZSL), the Wildlife Conservation Research Unit at the University of Oxford and with endorsement by the IUCN/SSC Canid Specialist Group. One of the objectives is to improve the understanding of sympatric Saharan carnivores (amongst others the sand cat) by determining their distribution and abundance, fundamental ecology, and community-level interactions. SCF is looking for further financial support (please contact: SCF CEO John Newby – john.newby@bluewin.ch). Another step concerning in situ conservation of sand cats is to compile a current distribution map for Felis margarita. At the moment there is a lack of confirmed records.

Research activities

2007
Some research studies were done in 2007 and 2008:

- Marleen Giesen (Van Hall-Larenstein) carried out a study concerning "Nutritional recommendation for the husbandry guidelines for the sand cat (Felis margarita) EEP" at Osnabrück. The results will be part of the husbandry guidelines.
- Franziska Flock, Osnabrück University, observed two sand cat pairs (Nesles, Osnabrück) at day and night by infra-red camera. Individual differences in behaviour patterns prevailed and the cats seemed to have adapted their solitary nature to a paired housing condition by taking turns in using the enclosures.
- Kathrin Witzenberger (PhD Osnabrück University) is trying to determine the sand cats’ genetic diversity through blood samples. Future field studies are needed to gain knowledge on the actual distribution of all sand cat subspecies.
- Barbara Hohage (University Duisburg - Essen) is investigating "Activity and stress in Felinae (Felis nigripes & Felis margarita)" in Wuppertal Zoo.

2008
In 2008 Franziska Flock (University of Osnabrück) finished her observations concerning the day and night activity pattern of sand cat pairs in Nesles and Osnabrück. Meanwhile we assume that the individual differences in behaviour patterns reflect if pairs harmonise. Tobias Klumpe (University of Osnabrück) will verify this assumption by observing a sand cat pair by infra-red camera. On this way we could get a tool to assess if a pairing is successful and avoid fights or killing of animals.

The studies from Kathrin Witzenberger and Barbara Hohage (see above) continued in 2008.

During last year Jennifer Ringleb (Institut for Zoo- and Wildlife Research Berlin) developed a non-invasive method for monitoring reproductive hormones in female sand cats and black-footed cats. Additionally all participants of the Sand cat EEP were requested to support another project of Jennifer Ringleb for establishing an in vitro culturing and cryopreservation system for oocystes of some cat species.

4. Publications

Studbook

Recent edition: 2007
Next edition: 2009

Husbandry guidelines

Not yet published.

5. Status

Status and developments over the year 2007 - 2008

Sand cat
Felis margarita

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		ALWABRA	10.12.0	0.3.0 (0.0.0)	0.0.0	1.3.0	1.0.0	1.0.0	0.1.0	9.11.0
		AMNEVILLE	1.2.0	4.1.2 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	3.1.2	2.1.0
		BERLIN-ZOO	0.1.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		BRISTOL	0.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0
		BRNO	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
		COLCHESTER	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
		DRESDEN	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
		EBELTOFT	3.4.0	2.1.4 (0.0.0)	1.0.0	2.1.0	0.0.0	0.0.0	0.0.4	4.4.0
*		ESKILSTUNA	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
		JERUSALEM	2.2.0	2.1.1 (0.0.0)	0.0.0	0.0.0	0.0.0	3.1.0	0.1.1	1.1.0
		KRAKOW	0.2.0	3.2.0 (0.0.0)	1.0.0	2.2.0	0.0.0	0.0.0	1.0.0	1.2.0
*		LYON	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
		MARWELL	4.0.0	0.0.0 (0.0.0)	0.1.0	1.0.0	0.0.0	0.0.0	0.0.0	3.1.0
		MULHOUSE	1.3.0	1.1.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	1.0.0	1.3.0
		NESLES	1.0.0	1.0.0 (0.0.0)	1.2.0	0.0.0	0.0.0	0.0.0	2.1.0	1.1.0
		NOVOSIBIRSK	2.1.0	0.7.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0	2.5.0
*		OSNABRUCK-EV_NE	0.0.0	0.0.0 (0.0.0)	1.2.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		PONT-SCORFF	0.2.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.2.0	0.0.0
		POZNAN	1.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		RAMAT-GAN	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
		RIGA	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
	*	SALMIYA	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
		SHARJAH	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.1.0	0.0.0	1.1.0	1.2.0
		WUPPERTAL	2.2.0	0.4.2 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.2	2.6.0
		Total (24)	35.44.0	13.20.9 (0.0.0)	7.8.0	7.8.0	2.1.0	4.1.0	10.14.9	36.50.0

Summary

2007
On 31 December 2007 37.43.2 (83) sand cats were held in 21 institutions. Osnabrück Zoo (DE) joined the programme as new holder in 2007. After the death of their old female the Berlin Zoo (DE) continues to keep sand cats with a new pair in 2008. The population slightly increased during 2007 (population growth rate: 1,029).

Programme difficulties:
From a demographic point of view the ex situ sand cat population is self-sustaining, but two problems affect the European population adversely; as in many small populations the individuals are closely related to each other and the breeding success is low. In 2007 in total 30 kittens were born, but only 14 survived. Including new founders and an increase of the population size to 100 individuals could improve the situation.

Programme recommendations:
In the long term the close relationship of the animals of the EEP population should be dissolved. Therefore new founders should be imported for

establishing non related breeding pairs. Because the population size should increase new sand cat keeping institutions are needed bit by bit in the long term.

2008
On 31 December 2008 36.50 (86) sand cats were held in 21 institutions. During the year three old individuals in Colchester and Dresden died and these institutions did not proceed to keep sand cats. Moreover Pont-Scorff lost their two animals and will receive sand cats again during 2009. Two institutions, Parken and Lyon, started keeping sand cats. Regarding the fact that Pont-Scorff will keep sand cats again in future, the total number of institutions of 22 is slightly increased compared to 2007.

Programme difficulties:
From a demographic point of view the ex situ sand cat population is self-sustaining. In the past two problems affected the European population adversely; as in many small populations the individuals were closely related to each other and the breeding success was low. In spite of importing new founders from Al Ain (UAE) the inbreeding coefficient is still high (MK 2006: 0,082, MK 2008: 0,088). In contrast it was possible to increase the number of births and the population grows (λ 2006: 0,961, λ 2008: 1,196). This means on the other hand that more sand cat keeping institutions are needed.

Programme recommendations:
The most important challenge for the next years is to solve the close relationship of the EEP population. Therefore new founders should be imported for establishing non related breeding pairs. Because the population size should increase new sand cat keeping institutions are needed now and bit by bit in the long term.

Black-footed cat

EEP Annual Report 2007 - 2008

1. Programme information

Black-footed cat *Felis nigripes*

EEP established in 1994.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Target population size A= 100 and B= 100

Additional comments

A challenging species, both in terms of husbandry and disease prevalence. Due to VU IUCN status worth pursuing more intensively as a conservation measure (back up ex situ popluation) and also need to secure support for in situ research and conservation projects by zoos in Europe and USA (Black-footed Cat Working Group).

2. Programme personnel

Species Coordinator

Andre Stadler (Wuppertal)

Species Committee members

Mark Challis (Belfast)

Nutritional advisor

Kristina Johansen (Ebeltoft)
Rüdiger Dmoch (Frankfurt)
Arne Lawrenz (Wuppertal)

Veterinary advisor

Bert Geyer (Frankfurt)
Arne Lawrenz (Wuppertal)

3. Activities

Species Committee

Last election: No election ever held.
Last meeting: 8 September 2007 Warszawa

Conservation activities

see www.wild-cat.org

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2007
Next edition: 2010

Husbandry guidelines

Published in 2008.

5. Status

Status and developments over the year 2007 - 2008

Black-footed cat
Felis nigripes

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		BELFAST	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
		WUPPERTAL	2.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		Total (2)	3.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.3.0

Summary

Not specified.

Oncilla

ESB Annual Report 2007 - 2008

1. Programme information

Oncilla *Leopardus tigrinus*

ESB established in 2004.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

European Studbook Keeper

Pavel Brandl (Praha)

3. Publications

Studbook

Recent edition: 2006

Next edition: 2009

Husbandry guidelines

Not yet published.

4. Status

Status and developments over the year 2007 - 2008

Oncilla
Leopardus tigrinus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		DORTMUND	3.3.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	1.0.0	1.2.0
		HAMERTON	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
		MULHOUSE	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
		NESLES	1.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	1.1.0	0.0.0	1.0.0	2.2.0
		PRAHA	3.2.0	2.0.0 (2.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	2.2.0
		WUPPERTAL	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 (6)	10.8.0	2.0.0 (2.0.0)	1.1.0	1.1.0	1.1.0	0.0.0	3.0.0	8.9.0

Summary

Only one pair bred in 2007/2008, in Prague. Unfortunately the kitten did not survive. The hormonal monitoring project in cooperation with IZW-Berlin has been established – Prague, Nesles, Wuppertal and Dortmund are participating. However, to get valuable results monitoring of cycling and breeding females is necessary. The female in Prague is considered for this project. The most important event of 2008 was the import of two new founders (1.1) by Nesles arriving from Sao Paulo. Nesles has arranged two new pairs from these two new animals and two previous animals of Dortmund origin. Three old males have died during the 2007/2008 and more deaths of old animals are awaited for 2009. Several institutions were interested to start with the species during the 2008, but there is no surplus available in the EAZA region at the moment.

Total of the population was 17 animals and the population is too small to conclude on any trends.

Recommendations:
Try to breed with all possible females. For the future of European population it is essential to import new stock from South America and establish unrelated pairings. Subspecies status of new imports should be considered – at least Central American subspecies will be probably split as a full species in the near future. Nesles imported 1,1 from Sao Paulo (Brazil). The attempts of Prague zoo to import animals from Guayana have been not be successful and were cancelled. The original stock in the ESB is expected to have come in from French Guyana and there is high probability that the animals from Sao Paulo are of a different subspecies.

Problems:
Poor breeding success, low number of founders (most animals in reproductive age have an inbreeding coefficient of 0.2500, their potential offspring will have an inbreeding coefficient of 0.3700), male aggressiveness, population age structure, limited surplus for potential new institutions. If no

breeding occurs during the next few years, the ESB population will fall down almost to half of the present numbers because of the age structure.

Margay

EEP Annual Report 2007 - 2008

1. Programme information

Margay *Leopardus wiedii*

EEP established in 1996.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Stewart Muir (Newquay)

Species Committee members

Monique Versloot (Amsterdam)
Clive Barwick (Colchester)
Nick L. Jackson (Colwyn-bay)
Lubomir Moudry (Decin)
Ilona Schappert (Dortmund)
Darren McGarry (Edinburgh)
Jan Vasak (Jihlava)
Casper Bijleveld (Kerzers)
Neville Buck (Lympne)
Gregory Breton (Nesles)
Asbjorn Ejlersen (Randers)

Veterinary advisor

John Lewis (Org-izvg_NE)

3. Activities

Species Committee

Last election: No election ever held.
Last meeting: 15 September 2008 Antwerpen

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2006
Next edition: 2008

Husbandry guidelines

Published in 2000.

5. Status

Status and developments over the year 2007 - 2008

Margay
Leopardus wiedii

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		AMSTERDAM	1.3.0	2.0.0 (0.0.0)	0.0.0	1.2.0	0.0.0	0.0.0	0.0.0	2.1.0
		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
*		COLWYN-BAY	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
		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
		DORTMUND	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
		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	1.1.0
		JIHLAVA	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
		JOHANNESBURG_NE	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
*		KERZERS	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
		LYMPNE	5.5.0	2.0.0 (0.0.0)	0.0.0	2.1.0	0.0.0	0.0.0	0.0.0	5.4.0
		NESLES	1.2.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.1.0	0.0.0	2.2.0
		RANDERS	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
*		SANDWICH_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
		Total (13)	14.15.0	4.0.0 (0.0.0)	3.3.0	3.3.0	0.0.0	0.1.0	0.1.0	18.13.0
		Non-EAZA Institutions	2.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.1.0	0.0.0	0.0.0	2.5.0

Summary

There has been a slight increase in specimen numbers and holding institutions. The only animals now being bred are of known origin, of the subspecies L. w. yucatanicus.

The most successful holders continue to be Amsterdam and Port Lympne. New holders will be required to establish pairs from both these institutions.

Eurasian lynx

ESB Annual Report 2007 - 2008

1. Programme information

Eurasian lynx	*Lynx lynx*
Irkutsk lynx	*Lynx lynx kozlovi*
Northern lynx	*Lynx lynx lynx*
Siberian lynx (wrangeli)	*Lynx lynx wrangeli*
Carpathian lynx	*Lynx lynx carpathicus*
Siberian lynx (wardi)	*Lynx lynx wardi*
Hybrid lynx	*Lynx lynx HYBRID*

ESB established in 2002.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

European Studbook Keeper

Lars Versteege (Hilvarenbeek)

3. Publications

Studbook

Recent edition: 2005

Next edition: 2009

Husbandry guidelines

Published in 2004.

4. Status

Status and developments over the year 2007 - 2008

Eurasian lynx
Lynx lynx

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
	*	AACHEN	0.2.0	1.4.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.6.0
		ATHINAI	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
		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
		BOCHUM	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
		BOSSIERE-DORE	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
		BRNO	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0	0.0.0
		BUSSOLENGO	0.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.1.0	0.0.0	0.1.0	1.1.0
		CABARCENO	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
	*	DARICA	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
		DECIN	1.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	1.0.0	0.0.0	1.1.0
*		DEIGNE	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
		DUDLEY	1.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.3.0
		FALCONARA	3.2.0	1.3.0 (0.2.0)	0.0.0	0.0.0	0.0.0	1.1.0	1.0.0	2.2.0
*	*	FORT-MARDYCK	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
		HERBERSTEIN	1.1.0	2.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.1.0
	*	HLUBOKA-VLTAVOU	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
		INNSBRUCK	1.1.0	1.3.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.2.0	0.0.0	1.2.0
		JURQUES	1.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	2.2.0	0.0.0	1.2.0	2.3.0
		KARLSRUHE	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
	*	KAZAN	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
		KINGUSSIE	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
		KRAKOW	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
		LANDAU	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
		LES-MATHES	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
		LIGNANO	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
		LJUBLJANA	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
		MADRID-FAUNIA	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
		MAGDEBURG	2.2.0	2.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	3.1.0	1.1.0	0.0.0
		MIERLO	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
		MOSKVA	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
		MUNCHEN	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
		MYKOLAYIV	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
*		NESLES	0.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0
		NYIREGYHAZA	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
		OSNABRUCK	2.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.2.0	0.0.0	1.1.0
	*	PLEUGUENEUC	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
		SALZBURG-ZOO	1.1.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0
		SANTILLANA	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
		STRAUBING	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
		SZEGED	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
		WIEN-ZOO	3.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0	2.1.0
		WROCLAW	2.2.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	2.2.0	0.0.0	1.1.0
		ZAGREB	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
		Total (43)	47.42.0	8.11.0 (0.2.0)	3.1.0	3.1.0	2.5.0	10.8.0	11.9.0	36.39.0

Irkutsk lynx
Lynx lynx kozlovi

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.

	SALZBURG-ZOO	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
	Total (1)	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0

Northern lynx
Lynx lynx lynx

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
	*	AACHEN	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
	*	AGRATE	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
	*	AHTARI	1.2.0	0.0.2 (0.0.0)	0.0.0	0.1.0	1.1.0	0.0.0	0.0.0	2.2.2
		AMNEVILLE	1.2.0	1.4.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.1.0	0.1.0	2.3.0
		AMSTERDAM	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
*		ATHINAI	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
		BORAS	3.3.0	2.4.0 (0.1.0)	0.0.0	0.1.0	0.0.0	1.0.0	1.0.0	3.5.0
		BUSSOLENGO	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
*		ESKILSTUNA	0.0.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.1.0	0.0.0	0.0.0	0.0.0
		FARJESTADEN	2.2.0	3.4.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	4.6.0
		GDANSK	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
		HELSINKI	2.0.0	2.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	3.0.0	0.0.0	1.1.0
		HOOR	2.1.0	4.1.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	2.1.0	3.1.0
		HUNNEBOSTRAND	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
		JARVSO	4.2.0	2.2.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	2.0.0	4.3.0
		KAUNAS	1.2.0	0.0.0 (0.0.0)	0.1.0	0.0.0	1.0.0	1.1.0	0.1.0	1.1.0
		KERKRADE	1.2.0	0.3.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.2.0	1.2.0
		KOLMARDEN	3.4.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.2.0	3.3.0
		KRAKOW	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
		KRISTIANSAND	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.2.0	0.0.0	0.0.0	2.4.0
		KRONBERG	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
		LANDAU	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
		LISBOA-ZOO	1.1.0	2.4.1 (1.2.1)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.3.0
		LYCKSELE	1.1.0	2.2.0 (0.0.0)	0.0.0	0.0.0	0.1.0	0.0.0	0.0.0	3.4.0
		MUNCHEN	1.1.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
*		NESLES	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
		OLOMOUC	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	0.0.0
		ORSA	3.2.0	2.1.0 (0.0.0)	0.0.0	0.0.0	1.0.0	0.0.0	2.1.0	4.2.0
*	*	PLEUGUENEUC	0.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		PONT-SCORFF	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
		POZNAN	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
		RANUA	1.3.0	2.1.0 (0.0.0)	0.1.0	1.0.0	0.0.0	0.0.0	0.1.0	2.4.0
		RIGA	2.2.0	1.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.1.0	0.0.0	2.1.0
		ROMA	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
		SANTILLANA	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
		STOCKHOLM-ZOO	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.1.0	1.1.0	0.1.0	1.1.0
	*	ST-PETERSBURG	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
		STRAUBING	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	1.1.0
		TALLINN	2.3.0	0.0.4 (0.0.4)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		WARSZAWA	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
		Total (40)	48.53.0	24.27.7 (1.3.5)	3.6.0	3.6.0	4.6.0	6.7.0	12.12.0	57.64.2

Siberian lynx (wrangeli)
Lynx lynx wrangeli

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		BALLAUGH	1.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.2.0
		DEIGNE	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
		GORLITZ	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
		HEIDELBERG	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

	KATOWICE	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
	LYMPNE	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
	MONTPELLIER	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
	MUNSTER	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	0.0.0
	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
	OBTERRE	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
	PONT-SCORFF	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
	RAMAT-GAN	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
	ROMA	0.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0	0.0.0
	ST-MARTIN-PLAIN	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
	THOIRY	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
	WOBURN	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
	WUPPERTAL	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 (17)	14.22.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	1.6.0	13.15.0

Carpathian lynx
Lynx lynx carpathicus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		BARCELONA-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
		BERN	1.2.0	1.1.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	2.2.0
		BOCHUM	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
		BOJNICE	1.0.0	0.0.0 (0.0.0)	0.0.0	1.1.0	4.1.0	0.0.0	1.0.0	3.0.0
		BRATISLAVA	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
*		BRNO	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
		CABARCENO	0.1.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0
		CHEMNITZ	4.1.0	3.0.0 (0.0.0)	1.0.0	4.0.0	0.0.0	1.0.0	0.0.0	3.1.0
		CHOMUTOV	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
		DORTMUND	2.2.0	2.2.2 (0.0.1)	0.0.0	3.2.0	0.0.0	0.0.0	0.0.0	1.2.1
		DOUE-FONTAINE	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
		GOLDAU	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
		INNSBRUCK	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
		JIHLAVA	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
*		KINGUSSIE	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
		LANGNAU	2.1.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	1.0.0	1.1.0
		LIBEREC	1.1.0	0.2.0 (0.2.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
*		MAGDEBURG	0.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.1.0	0.0.0	1.0.0
		MULHOUSE	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
		OLOMOUC	1.1.0	1.0.2 (0.0.2)	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0	1.1.0
		OPOLE	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
		OSTRAVA	1.0.0	2.2.0 (0.0.0)	0.1.0	0.0.0	0.0.0	2.1.0	0.0.0	1.2.0
*		SALZBURG-ZOO	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
*		SZEGED	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
		VESZPREM	0.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		Total (25)	24.16.0	9.7.5 (0.2.4)	9.4.0	9.4.0	4.1.0	4.3.0	3.0.0	30.19.1

Siberian lynx (wardi)
Lynx lynx wardi

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
	*	BERLIN-TIERPARK	1.1.0	1.2.1 (1.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
		NESLES	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
		NOVOSIBIRSK	2.2.0	5.2.0 (0.0.0)	0.0.0	0.0.0	0.1.0	4.2.0	0.0.0	3.3.0
		Total (3)	4.5.0	6.5.1 (1.0.1)	0.0.0	0.0.0	0.1.0	4.2.0	0.1.0	5.8.0

Eurasian lynx

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Hybrid lynx
Lynx lynx HYBRID

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
	*	ALMATY	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0	0.0.0
		AMERSFOORT	4.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.1.0
		CHEMNITZ	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
		DUISBURG	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
		KRAKOW	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
		NESLES	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
		NOVOSIBIRSK	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
		NYIREGYHAZA	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	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
		ROSTOCK	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
		SZEGED	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.1.0	0.0.0	0.0.0
		VESZPREM	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	0.0.0
		Total (12)	16.7.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.0.0	1.2.0	3.0.0	13.5.0

Discrepancy notes

Northern lynx
Lynx lynx lynx

FARJESTADEN	The status on 1 January 2007 is 2.2.0 instead of 4.3.0 as listed on 31 December 2006. Deaths were not previously reported.
KRISTIANSAND	The status on 1 January 2007 is 2.2.0 instead of 3.3.0 as listed on 31 December 2006. Deaths were previously not reported.

Summary

2007:
Fifteen institutions did not respond to the yearly update. This lack of cooperation is detrimental to the functioning of the programme.

The total number of Northern lynxes (L. l. lynx) increased from 49.54 to 54.58.6. 34 animals were born of which 6 DNS. Six (2.4) animals were transferred to non-EAZA zoos and 3.3 animals came in either from the wild or from non-EAZA zoos. Thirteen animals died. The total number increased from 103 to 118 animals.

The old Irkutz lynx at Salzburg died during 2007.

The Siberian lynx population is decreasing. No animals were born but six died. One animal was sent to a non-EAZA zoo, leading to the status of 14.16 on 31 December 2007.

The most exiting developments occurred again in the Carpathian lynx population. Seven (4.1.2) animals were born in three institutions of which 0.0.2 did not survive. Three animals were transferred between the participating institutions. Bojnice received 4.1 lynxes from nature and two lynxes died. The population increased from 40 to 46 animals.

The Siberian lynxes (L. l. wardi) were only bred in Novosibirsk (3 males) of which 1 was sent out of EAZA. The population increased with two animals to 11 animals (6.5).

The population of unknown subspecies is still large (46.42 animals at 1 January 2007), but it is decreasing. During the year 4.5 animals were born, 3.1 were transferred within EAZA, two were received from a non-EAZA zoo and 10 were sent to non-EAZA zoos. Nine (4.5) animals died leading to an end status of 41.39 at 31 December 2007.

The population of mixed origin lynxes increased from 17.9 at 1 January 2007 to 17.10 at 31 December 2007. Two new mixed origin individuals were born (in the table of generic lynxes, since the mother is a generic lynx) and one animal died.

2008:
Thirteen institutions did not respond to the yearly update. This lack of cooperation is detrimental to the functioning of the programme.

The total number of Northern lynxes (L. l. lynx) increased from 117 (55.60.2) to 123 (57.64.2). 24 animals were born of which 3 DNS. Seven (4.3) animals were transferred to non-EAZA zoos and 1.3 animals came in from the wild or non-EAZA zoos. 11 animals died.

The Siberian lynx population is decreasing. No animals were born but one died, leading to the status of 13.15 on 31 December 2008.

The Carpathian lynx population is developing slowly but surely. Fourteen (5.6.3) animals were born in six institutions of which 0.2.2 did not survive. Twelve animals were transferred within the ESB. Three animals were transferred out of the ESB, of which two were sent to a reintroduction project and one escaped from the exhibit. Only one lynx died. The population increased to 50 animals.

The Siberian lynxes (L. l. wardi) were bred in Novosibirsk, Berlin TP and Nesles. 3.2 were sent out of the ESB. The population increased with one animal to 13 animals (5.8)

The population of unknown subspecies is still large (41.39 animals at 1 January 2008), but it is decreasing. During the year 4.4 animals were born (0.2 DNS), five were received from a non-EAZA zoo and five were sent to non-EAZA zoos. Ten (6.4) animals died leading to an end status of 36.39 at 31 December 2008.

The population of mixed origin lynxes decreased from 16.9 at 1 January 2008 to 14.6 at 31 December 2008. Two new mixed origin individual were born (in the table of generic lynxes since their mother is a generic lynx), one came in from a non-EAZA zoo, 1.4 were sent out to non-EAZA zoos and three animals died.

Problems:
The number of lynxes of unknown subspecies and/or origin, although decreasing slowly, is still high. Due to lack of (historic) information it is in many cases very difficult to identify the origin of lynxes of unknown subspecies.
The ongoing debate among Felid taxonomists on the validation and determination of the different subspecies makes the management of the Eurasian lynx in captivity quite difficult. The establishment of a core population, of lynxes of known origin/populations, is very difficult without the necessary information.
Due to the transfers with non-EAZA institutions, many lynxes need to be registered as “lost to follow up” as no further information is available. The incidences of lynxes of unknown origin or mixed origin being sent out to non-EAZA institutions is increasing and with it the control of these individuals. It is likely that breeding takes place with these individuals and offspring again returns in the EAZA captive population, or even are used for reintroduction projects.

Recommendations:
The debate around the validity of the Eurasian lynx subspecies continues with the ongoing study on this subject. Though several subspecies are generally recognised, still more research is needed to clarify the status of the different sub-populations. The IUCN-SSC Felid Specialist Group is heavily involved in this study and in the near future, cooperation could be established in which samples from accepted subspecies and/or populations can be examined to establish a genetic resource centre to assist with the identification of animals of unknown origin/subspecies. It is very unfortunate that the EAZA Large Carnivore Campaign group did not acknowledge this crucial project for funding since it will benefit possible future reintroduction projects as well.
It is strongly recommended that inbreeding is avoided at all times. Participants are encouraged to contact the studbook keeper for recommendations on proposed transfers and/or breeding.
With the number of pure Carpathian and Northern lynxes born the ESB can easily guarantee pure breeding pairs for each interested institution. Each lynx holder should take their responsibility and either stop breeding unknown origin or hybrid lynxes or take effort to start with a pure pair.

Geoffroy's cat

EEP Annual Report 2007 - 2008

1. Programme information

Geoffroy's cat *Oncifelis geoffroyi*

EEP established in 1996.

Goal(s)

Percentage of gene diversity 75% saved in 50 years.

Target population size A= 150 and B= 100

Additional comments

The current genetic diversity is very low (0,82). New founders are needed to increase the genetic diversity. There are contacts with ALPZA about exchanging captive born animals from South American Zoos.

2. Programme personnel

Species Coordinator

Raymond van der Meer (Amersfoort)

Species Committee members

Jan Vasak (Jihlava)
Beata Kuzniar (Krakow)
Gregory Breton (Nesles)
Petra Padalikova (Usti-nad-labem)
Andre Stadler (Wuppertal)

Veterinary advisor

John Lewis (Org-izvg_NE)

Research advisor

Udo Ganslosser (Greifswald-uni_NE)

General advisor

Alexander Sliwa (Koln)

3. Activities

Species Committee

Last election: 2008
Last meeting: 1 June 2009 Amersfoort

Conservation activities

In 1999 a research and conservation project was started by the Asociación para la Conservación y el Estudio de la Naturaleza (Association for the Conservation and Study of Nature), with the purpose of gathering vital information about the natural history and conservation status of the four feline species (Geoffroy's cat, pampas cat, jaguarondi and puma) that inhabit the arid and semiarid lands of Central Argentina.

Since its first steps, the project has been coordinated by the Argentinean biologist Javier Pereira and many other professionals and volunteers have been involved in the project. The collected information will form a basis for writing a conservation action plan for the Geoffroy's cat and other small cat species in Argentina. There is a close cooperation and communication between the project and the EEP and information from the wild is distributed to the participants.

Research activities

Effects of Landscape Pattern and Human Activites on the Gene Flow and Genetic Structure of Geoffroy's Cat (Leopardus geoffroyi). Project coordinated by Javier Pereira (ACEN): 2009 - 2010

4. Publications

Studbook

Recent edition: 2008
Next edition: 2010

Husbandry guidelines

Not yet published.

Geoffroy's cat

EEP Annual Report 2007 - 2008

5. Status

Status and developments over the year 2007 - 2008

Geoffroy's cat
Oncifelis geoffroyi

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
*		AMERSFOORT	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	2.0.0	0.0.0	0.0.0	2.0.0
		ASCHERSLEBEN_NE	4.0.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	3.0.0
		BANHAM	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
		BERLIN-TIERPARK	2.1.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		BOJNICE	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
		BROXBOURNE	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
		COLCHESTER	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
		DUDLEY	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.1.0	0.0.0	1.0.0
		JIHLAVA	1.3.0	1.0.0 (0.0.0)	1.0.0	0.1.0	0.0.0	1.0.0	0.0.0	2.2.0
		KARLSRUHE	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
		KRAKOW	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
		KRONBERG	1.1.0	0.0.5 (0.0.5)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		NESLES	1.3.0	0.0.0 (0.0.0)	1.0.0	0.1.0	0.0.0	0.0.0	0.0.0	2.2.0
		NEWCHURCH	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	2.0.0
		OSTRAVA	2.2.0	2.2.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	3.3.0
		PONT-SCORFF	1.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.1.0	0.0.0	1.0.0
		ROSTOV_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
		USTI-NAD-LABEM	2.1.0	1.2.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		WARSZAWA	3.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	1.0.0	1.1.0
		WUPPERTAL	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
		Total (20)	28.22.0	4.5.5 (0.0.5)	4.3.0	5.3.0	2.0.0	2.3.0	3.2.0	28.22.0
		Non-EAZA Institutions (5)	7.3.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	2.1.0	6.2.0

Discrepancy notes

Geoffroy's cat
Oncifelis geoffroyi

Non-EAZA Institutions (5) — The Non-EAZA institutions are:
Aue (D), Bad Kosen (D), Stefana Milera (P), Spiss Nova Ves (SK), Borth (UK)

Summary

Where 2007 was a terrible year, with no births and many deaths, 2008 was much better. There were good breeding results (4.5.0 survived) and only very few deaths (2.0.0). There is still a lack of females but the situation has improved a little bit (see status table). Transfer and breeding recommendations were given out in November and most of them were implemented. At the end of 2008 participants were asked to elect themselves for the species committee and this resulted in the establishment of a newly formed Species Committee.

Pallas' cat

EEP Annual Report 2007 - 2008

1. Programme information

Pallas' cat *Otocolobus manul*

EEP established in 2005.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

David Barclay (Edinburgh)

Species Committee members

Francesco Rocca (Agrate)
Chris Burton (Bekesbourne)
Jamie Craig (Burford)
Helena Olsson (Eskilstuna)
Leif Blomqvist (Helsinki)
Jan Vasak (Jihlava)
Ryszard Topola (Lodz)
Jana Pluháčková (Ostrava)
Xavier Vaillant (Pont-scorff)
Guna Vitola (Riga)
Martin van Wees (Rotterdam)

General advisor

Douglas Richardson (Kingussie)

3. Activities

Species Committee

Last election: No election ever held.
Last meeting:

Conservation activities

Not specified.

Research activities

Veterinary research has begun to investigate the most effective treatment of Toxoplasmosis, a highly damaging parasite to the Pallas´s cat captive population. Initial discussions have been started with the Species committee as how this should be approached with some general reports being compiled by the Veterinary advisor which are being passed through the committee. This research has been started so that a universal treatment can be recommended for use with the Pallas´s cat husbandry guidelines and hopefully improve infant survival rates for this species.

4. Publications

Studbook

Recent edition: 2002
Next edition: 2009

Husbandry guidelines

Not yet published.

5. Status

Status and developments over the year 2007 - 2008

Pallas' cat
Otocolobus manul

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		AGRATE	2.3.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0	1.2.0
		AUGSBURG	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
		BEKESBOURNE	3.3.0	2.2.7 (0.0.0)	0.1.0	0.1.0	0.0.0	0.1.0	0.1.7	5.3.0
		BERLIN-TIERPARK	1.6.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.5.0
		BOJNICE	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
		BROXBOURNE	1.1.0	3.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	2.0.0	0.0.0	1.1.0
*		BURFORD	0.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		CHOMUTOV	1.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		COLCHESTER	1.1.0	2.3.0 (0.0.0)	0.0.0	1.3.0	0.0.0	1.0.0	0.1.0	1.0.0
		EDINBURGH	1.1.0	2.3.2 (0.0.0)	0.0.0	1.2.0	0.0.0	0.1.0	1.0.2	1.1.0
*		ESKILSTUNA	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
		GORLITZ	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
		HELSINKI	2.2.0	2.5.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	3.6.0	1.1.0
		JIHLAVA	1.1.0	3.1.0 (0.0.0)	0.1.0	1.0.0	0.0.0	1.0.0	1.0.0	1.3.0
		KRAKOW	2.2.0	1.1.3 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.3	2.3.0
		LODZ	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
*		LYMPNE	1.0.0	0.0.2 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.2	1.1.0
		MAGDEBURG	1.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		MOSKVA	7.14.0	0.0.0 (0.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	5.7.0	2.5.0
		MULHOUSE	5.4.0	0.0.0 (0.0.0)	1.0.0	0.2.0	0.0.0	0.0.0	1.1.0	5.1.0
		NESLES	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
		NOVOSIBIRSK	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
*		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
*		OSTRAVA	2.0.0	0.0.0 (0.0.0)	0.3.0	0.0.0	0.0.0	0.0.0	0.1.0	2.2.0
*		PERM_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
*		PISTOIA	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
*		PONT-SCORFF	5.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	2.0.0	4.1.0
		POZNAN	2.3.0	1.0.0 (0.0.0)	0.2.0	0.1.0	0.0.0	0.0.0	1.1.0	2.3.0
		PRAHA	5.4.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	1.2.0	4.3.0
*		RIGA	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
		ROTTERDAM	10.7.0	0.0.1 (0.0.0)	1.0.0	4.3.0	0.0.0	1.0.0	2.4.1	4.0.0
*		SANDWICH_NE	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
*		SEVERSK_NE	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
		ST-PETERSBURG	3.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.4.0
*		SAARBRUCKEN	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
		TALLINN	2.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.1.0
		USTI-NAD-LABEM	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
		WARSZAWA	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
		WASSENAAR-WBC	1.1.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0
		WIEN-ZOO	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0	0.0.0
		ZURICH	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 (41)	69.75.0	16.16.15 (0.0.0)	10.16.0	10.16.0	0.0.0	5.2.0	21.32.15	59.57.0

Pallas' cat

EEP Annual Report 2007 - 2008

Summary

Not specified.

Rusty-spotted cat

ESB Annual Report 2007 - 2008

1. Programme information

Rusty-spotted cat *Prionailurus rubiginosus phillipsi*

ESB established in 1994.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Additional comments

On the basis of the current population, the goal of 90% genetic diversity is impossible to reach, unless a number of new founders are going to be introduced into the population of the Rusty-spotted cat.

2. Programme personnel

European Studbook Keeper

Rüdiger Dmoch (Frankfurt)

3. Publications

Studbook

Recent edition: 2007

Next edition: 2010

Husbandry guidelines

Not yet published.

4. Status

Status and developments over the year 2007 - 2008

Rusty-spotted cat
Prionailurus rubiginosus phillipsi

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
*		BERLIN-ZOO	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
		FRANKFURT	5.14.0	2.3.1 (0.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	4.3.1	3.12.0
		LYMPNE	0.3.0	3.1.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.1.0	4.3.0
*		NESLES	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
		ROTTERDAM	2.3.0	5.0.0 (0.0.0)	0.0.0	1.2.0	0.0.0	0.0.0	0.0.0	6.1.0
		Total (5)	7.20.0	10.4.1 (0.0.0)	1.4.0	1.4.0	0.0.0	0.0.0	4.4.1	13.20.0

Summary

The Rusty-spotted cat population in captivity is based on only 3 founders (of which at least two individuals were siblings). The current retained genetic diversity accounts to only 62.60%, thus, making long-term sustainability of the population extremely improbable. The import of a sufficient number of new founders is urgently needed in order to achieve the goal of 90% genetic diversity in captivity.

Fishing cat

EEP Annual Report 2007 - 2008

1. Programme information

Fishing cat *Prionailurus viverrinus*

EEP established in 1998.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Milada Petru (Decin)

Species Committee members

Claus Pohle (Berlin-tierpark)
Helena Olsson (Eskilstuna)
Dorothee Ordonneau (Lille)
Eric Bairro Ruivo (Lisboa-zoo)
Neville Buck (Lympne)
Gregory Breton (Nesles)
Jirka Novak (Ostrava)
Pavel Brandl (Praha)
Martin van Wees (Rotterdam)

Veterinary advisor

Dorothee Ordonneau (Lille)
Jane Hopper (Lympne)
Guillaume Douay (Pont-scorff)

3. Activities

Species Committee

Last election: 2008
Last meeting:

Conservation activities

Phylogeography of the Fishing cat (Prionailurus viverrinus): identifying populations for conservation.
Shomita Mukherjee, Milada Petrů & Uma Ramakrishnan

Research activities

Phylogeography of the Fishing cat (Prionailurus viverrinus): identifying populations for conservation.
Shomita Mukherjee, Milada Petrů & Uma Ramakrishnan

4. Publications

Studbook

Recent edition: 2008
Next edition: 2010

Husbandry guidelines

Published in 2008.

Fishing cat

EEP Annual Report 2007 - 2008

5. Status

Status and developments over the year 2007 - 2008

Fishing cat
Prionailurus viverrinus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		AMNEVILLE	1.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		BALLAUGH	1.1.0	2.0.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		BANHAM	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
		BEKESBOURNE	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
		BERLIN-TIERPARK	2.2.0	1.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	1.0.0	0.0.0	1.1.0
		BOJNICE	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
		BRNO	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
		DECIN	2.2.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		DRESDEN	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
		ESKILSTUNA	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	2.0.0	0.1.0	0.0.0
		KESWICK_NE	0.1.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		LA-FLECHE	1.0.0	2.1.1 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.1	3.2.0
		LILLE	3.0.0	0.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	1.0.0
*		LISBOA-ZOO	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
		LYMPNE	4.6.0	1.2.0 (0.0.0)	1.0.0	1.2.0	0.0.0	0.0.0	1.1.0	4.5.0
		NESLES	2.2.0	0.0.2 (0.0.2)	0.1.0	1.1.0	0.0.0	0.0.0	1.1.0	0.1.0
		NOVOSIBIRSK	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
		OLOMOUC	3.4.0	1.2.2 (0.0.0)	0.0.0	0.3.0	0.0.0	2.1.0	0.0.2	2.2.0
		OSTRAVA	1.1.0	0.0.0 (0.0.0)	1.1.0	1.0.0	1.1.0	0.0.0	1.1.0	1.2.0
		PESSAC_NE	1.1.0	2.0.3 (2.0.2)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.1	0.1.0
		PONT-SCORFF	3.0.0	1.2.1 (0.0.0)	0.1.0	1.0.0	0.0.0	0.0.0	0.0.1	3.3.0
		PRAHA	0.1.0	0.0.0 (0.0.0)	1.1.0	0.1.0	0.2.0	0.1.0	0.2.0	1.0.0
		RHENEN	3.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	2.0.0
		ROTTERDAM	3.1.0	2.1.0 (0.0.0)	0.0.0	1.0.0	0.0.0	1.0.0	0.0.0	3.2.0
		ST-PETERSBURG	1.2.0	1.1.0 (1.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		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
		TAMWORTH_NE	1.2.0	1.1.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	1.1.0	1.1.0
*		TREGOMEUR	0.0.0	1.1.6 (0.0.1)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.5	2.2.0
		USTI-NAD-LABEM	0.0.0	0.0.0 (0.0.0)	2.2.0	0.0.0	0.0.0	1.1.0	0.0.0	1.1.0
		Total (29)	40.33.0	15.11.15 (4.1.5)	10.12.0	10.12.0	1.3.0	7.3.0	7.8.10	38.35.0

Summary

At the end of 2008 there were 73 fishing cats held in 26 institutions. There were 28 births during last year of 10 kittens did not survive the first 30 days. This is a great improvement compared to previous years (3 kittens in 2007, only 1 in 2006). This success was achieved traditionally thanks to breeding pairs in Lympne, Olomouc, Rotterdam and Berlin but also to new pairs in La Fleche and Tregomeur. The breeding male from Pont Scorff was recommended for exchange with another male. A new pair was established in Amneville but unfortunately not successfully so another pairing will need to be made.

In September 2008 two new founders (females) were imported to Praha, one of them was transferred to Ostrava. Now Ostrava keeps 1.2 originally from Sri Lanka. Unfortunately, Praha lost their female.
Another sad accident happened in Ostrava. Genetically important male 641 (Sri Lanka origin) killed his second female (non-breeding). The male was transferred to Lympne to give him another chance to breed and was until now successfully paired with female.

Since last year the population has increased. New pairs started to breed. In order to maintain a healthy population for a longer period we need to keep more individuals. For that we urgently need more participants and breed especially founders and potential founders and animals with lower MK values. Problems with establishing new pairs and breeding were discussed in last studbook.

Clouded leopard
EEP Annual Report 2007 - 2008

1. Programme information

Clouded leopard *Neofelis nebulosa*

EEP established in 1990.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Ben Warren (Bekesbourne)

Species Committee members

Achim Winkler (Duisburg)

Robert Zingg (Zurich)

3. Activities

Species Committee

Last election: Over 5 years ago.

Last meeting: 21 September 2000 Aalborg

Conservation activities

The EEP is currently in touch with a breed and release site in Cambodia. It is hoped that further cooperation and involvement between the site and the EEP will be established in the near future.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2005

Next edition: 2010

Husbandry guidelines

Published in 2008.

5. Status

Status and developments over the year 2007 - 2008

Clouded leopard
Neofelis nebulosa

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		BEKESBOURNE	8.10.0	3.3.3 (0.0.0)	0.0.0	1.3.0	0.0.0	0.1.0	1.1.0	9.8.3
*		BERLIN-TIERPARK	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
		BOSSIERE-DORE	1.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	1.0.0	1.1.0
		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
		FRANKFURT	1.1.0	1.0.1 (0.0.0)	0.0.0	2.1.0	0.0.0	0.0.0	0.0.1	0.0.0
		GREAT-YARMOUTH	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
		LISBOA-ZOO	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
		LYMPNE	1.2.0	2.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	2.1.0
		NESLES	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
*		PARIS-ZOO	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	3.2.0	1.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	3.2.0
*		ST-AIGNAN	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
		WUPPERTAL	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
		ZURICH	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
		Total (14)	18.16.0	7.3.4 (0.0.0)	5.5.0	5.5.0	0.0.0	0.1.0	2.1.1	23.17.3

Clouded leopard

EEP Annual Report 2007 - 2008

Summary

Breeding has been a huge success with very few deaths. Due to the success of breeding using very few bloodlines, we will need to find new bloodlines and parks that would like to become involved in the EEP to house offspring.

Asian lion

EEP Annual Report 2007 - 2008

1. Programme information

Asian lion — *Panthera leo persicus*

EEP established in 1994.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Target population size A= 200 and B= 75

2. Programme personnel

Species Coordinator

Neil Dorman (Twycross)

Species Committee members

Sebastien Laurent (Bossiere-dore)
John Partridge (Bristol)
Leif Blomqvist (Helsinki)
Lydia Kolter (Koln)
Malcolm Fitzpatrick (London)
Marleen Huyghe (Mechelen)
Neil Bemment (Paignton)
Pavel Brandl (Praha)
Martin van Wees (Rotterdam)
Robert Zingg (Zurich)

Veterinary advisor

Nic Masters (Org-izvg_NE)

3. Activities

Species Committee

Last election: 2006
Last meeting: 17 September 2008 Antwerpen

Conservation activities

Not specified.

Research activities

Dr. Andrew Kitchener, Principal Curator of Mammals and Birds at the National Museum in Edinburgh, UK, is the recipient of carcasses of any adult Asian lions that die so that he can analyse skeletal development/degeneration of animals in the population of this morphologically unique species.

The EEP also supports the work of Dr. Jennifer Ringleb at the Leibniz Institute for Zoo and Wildlife Research (IZW) in Berlin focusing on the development of IVF and embryo transfer protocols for wild cat species. As such all EEP participants are asked to send ovaries and testes of any Asiatic lions that are either euthanized or sterilised, for inclusion in this valuable work. It is particularly important that materials are NOT frozen and that the quickest means of shipment is used.

In both instances please contact either Andrew or Jennifer to make the appropriate shipping arrangements.

4. Publications

Studbook

Recent edition: 2007
Next edition: 2010

Husbandry guidelines

Not yet published.

5. Status

Status and developments over the year 2007 - 2008

Asian lion
Panthera leo persicus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		BENIDORM	0.1.0	0.0.0 (0.0.0)	1.1.0	0.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		BERLIN-TIERPARK	1.2.0	0.0.0 (0.0.0)	1.3.0	0.2.0	0.0.0	0.0.0	0.0.0	2.3.0
		BESANCON	3.2.0	0.0.0 (0.0.0)	1.0.0	3.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		BOSSIERE-DORE	0.1.0	0.2.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
		BRISTOL	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
		BURFORD	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
		CHESSINGTON	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
		CHESTER	1.1.0	4.2.1 (2.2.1)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.1.0
		DOMPIERRE	1.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	1.0.0	0.2.0
		DUDLEY	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
		EDINBURGH	3.4.0	0.0.7 (0.0.7)	0.0.0	2.2.0	0.0.0	0.0.0	0.0.0	1.2.0
		ESKILSTUNA	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
		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
		HELSINKI	1.4.0	1.0.0 (1.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.3.0
		JEREZ-FRONTERA	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
		JERUSALEM	1.1.0	0.0.0 (0.0.0)	0.2.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
		KOLN	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
		LODZ	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
		LONDON	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
		MAGDEBURG	1.1.0	1.4.0 (1.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.4.0
*		MAUBEUGE_NE	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
		MECHELEN	1.1.0	2.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.2.0
		MOSKVA	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
		MULHOUSE	1.2.0	3.6.0 (3.4.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	1.3.0
		NURNBERG	1.3.0	0.0.0 (0.0.0)	0.0.0	1.3.0	0.0.0	0.0.0	0.0.0	0.0.0
		OSTRAVA	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	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	1.1.0	0.0.0 (0.0.0)	0.1.0	0.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		ROMA	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
		ROTTERDAM	0.4.0	0.0.0 (0.0.0)	2.0.0	0.1.0	0.0.0	1.0.0	0.1.0	1.2.0
		SANTILLANA	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	1.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		TWYCROSS	1.1.0	0.0.0 (0.0.0)	0.2.0	1.0.0	0.0.0	0.0.0	0.1.0	0.2.0
		ZURICH	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
		Total (34)	35.50.0	11.15.8 (7.7.8)	11.12.0	11.12.0	1.1.0	1.1.0	5.3.0	34.55.0

Summary

During the period 1st January 2007 - 31st December 2008 a total 34 (11.15.8) cubs were born with 12 (4.8) surviving. It is reassuring to note that litters of cubs which were reared at Magdeburg and Mechelen (2007) and at Chester and Mulhouse (2008) followed previous litters which were lost due to inexperience of the dam. Although a highly contentious subject this does highlight the importance of allowing females to gain maternal experience with early litters rather than being too hasty to intervene and handrear first or second litters. Exceptions would be made if factors such as age of dam and/or genetic importance were to determine otherwise.

A total of 8 (5.3) lions died, including the last of the original founders to come into Europe from India in the 1990´s - 18 year old ´Ruchi´ at London and 19 year old ´Bhagirath´ at Zurich. Taking into account surviving births and deaths the population increased by 4 animals.

During 2007 and 2008 25 lions were transferred to either create new pairs or improve genetic compatibility. This included the transfer of a young hand reared male 'Tejas' from Chester to Besancon. This was carried out primarily to enable 'Tejas' to become accustomed to other lions from an early age. Besancon was chosen as there were only two females there and no complications of a resident male. This is an important move from a social development point of view for ´Tejas´ and also to gain further experience of integrating hand reared lions if required in the future.

For the first time in several years a new participant joined the EEP. Non-EAZA member Maubeuge, France, received a young female from Mulhouse and the known sterile male from Rotterdam, which in turn opened up for the possibility for Rotterdam to receive a future breeding male for their two females.

There appears to be a renewed interest in this EEP with several collections indicating that they wish to join the programme when lions become available and new enclosures have been built.

Programme difficulties:
Although retained genetic diversity of the population is still reasonably good, at 87%, it is becoming more difficult to create new pairs with good inbreeding coefficients. As in previous years the EEP continues to require more males than we actually have due to a continued higher mortality rate of males than females and a higher percentage rate of females being born than males.

To ensure that the EEP can continue to grow and retain good genetic diversity it continues to be of importance to increase the number of founders with additional lions. This is being addressed as a priority area to focus our attention on in the coming years.

Notes

The EEP coordinator attended the International Conference on Conservation Breeding in New Delhi in February 2008, an initiative of the Indian Central Zoo Authority. This was a positive move forward in establishing links with conservation projects for those endemic species which are managed within the Indian region and, specifically for this programme, the Asiatic lion in Indian zoos. One outcome of the conference was the need to re-establish the International Studbook for the Asiatic lion with the initial application having now been approved by WAZA. The next stage is to update the International studbook, and then work towards establishing a Global Species Management Programme.

There was also an opportunity to visit the 345 km² Kuno Wildlife Sanctuary in North Madhya Pradesh, the proposed site which was established for a second population of Asiatic lions in 1993. With an additional buffer zone of 924 km² the total area of 1269 km² is being collectively managed as part of the Lion Reintroduction Project. In preparation for the proposed translocation of lions from Gir to Kuno twenty four villages were relocated from the sanctuary to surrounding areas and approximately 1547 families compensated. An extensive water supply was also installed to ensure adequate water supplies during periods of drought. Unfortunately, due to some early communication problems, it is well known that there is reluctance on the part of Gujarat to allocate lions for the translocation and the current situation is now being heard in India´s High Court.

Additional visits to the Gir Forest National Park and Sakkarbaug Zoo gave an excellent opportunity to not only see wild lions in their natural state but also to enter into discussions with park and zoo staff for future cooperation which could benefit both the EEP and the lion populations within the Indian region.

Jaguar

ESB Annual Report 2007 - 2008

1. Programme information

Jaguar *Panthera onca*

ESB established in 2000.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

European Studbook Keeper

Mark Pilgrim (Chester)

3. Publications

Studbook

Recent edition: 2008

Next edition: 2009

Husbandry guidelines

Not yet published.

4. Status

Status and developments over the year 2007 - 2008

Jaguar
Panthera onca

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		ALMATY	2.2.0	2.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	3.2.1
		AMNEVILLE	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	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
		ANTWERPEN	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
		ATHINAI	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
		BARCELONA-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
		BENIDORM	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	3.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	3.2.0
		BERLIN-ZOO	1.1.0	0.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.2.0
		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
		BROXBOURNE	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
		CHESTER	3.2.0	0.0.2 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.2	3.2.0
		COLCHESTER	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
		DORTMUND	1.3.0	0.0.0 (0.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.0.0	1.1.0
		DUBLIN	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
		EDINBURGH	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.1.0	0.0.0	0.1.0	1.1.0
		GREAT-YARMOUTH	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
		HALLE	1.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	1.1.0
		KAZAN	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
		KRAKOW	2.4.0	1.0.0 (0.0.0)	1.0.0	0.1.0	0.0.0	0.0.0	1.1.0	3.2.0
		KREFELD	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
		LANDAU	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
		LES-MATHES	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.0.0	0.0.0	0.0.0	1.1.0
		LISBOA-ZOO	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
		MOSKVA	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
		MUNCHEN	2.3.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.3.0
		MYKOLAYIV	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0	0.1.0
		NESLES	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	3.1.0	1.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	1.0.0	0.0.0	2.1.0
		OLOMOUC	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
		OPOLE	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	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
		OSTRAVA	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
		PLAISANCE-TOUCH	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
		PONT-SCORFF	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
		PRAHA	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
		PUERTO-CRUZ	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
		ROSTOCK	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
		SABLES-OLONNE	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
		SALZBURG-ZOO	1.1.0	0.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.1	1.1.0
		ST-AIGNAN	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
		ST-PETERSBURG	1.1.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.1.0
		STUTTGART	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
		SAARBRUCKEN	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
		USTI-NAD-LABEM	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
		WARSZAWA	3.1.0	2.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	2.0.0	0.0.0	3.1.0
		WIEN-ZOO	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
		ZAGREB	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 (48)	52.65.0	8.4.4 (0.0.0)	1.3.0	1.3.0	1.1.0	4.2.0	4.7.3	53.61.1
		Non-EAZA Institutions (3)	2.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.4.0

Jaguar

ESB Annual Report 2007 - 2008

Summary

Jaguars have been in European zoos for more than a 100 years and this means that we only have less than 5 percent of the pedigrees known. This makes giving breeding recommendations for unrelated animals very difficult. The goals of this population is to remain stable and not grow and we are achieving this. The programme contains a large number of non EAZA zoos.

North Chinese leopard
EEP Annual Report 2007 - 2008

1. Programme information

North Chinese leopard *Panthera pardus japonensis*

EEP established in 2003.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Committee members

Clemens Becker (Karlsruhe)
Lubomir Melichar (Liberec)
Malgorzata Pacholzyk (Lodz)
Norbert Fritsch (Neunkirchen)
Sylvie Clavel (Plaisance-touch)
Jolana Bezdekova (Plzen)

3. Activities

Species Committee

Last election: 2006
Last meeting: 13 September 2007 Warszawa

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2008
Next edition: 2010

Husbandry guidelines

Not yet published.

North Chinese leopard
EEP Annual Report 2007 - 2008

5. Status

Status and developments over the year 2007 - 2008

North Chinese leopard
Panthera pardus japonensis

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
*		BEKESBOURNE	0.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		BERLIN-TIERPARK	1.4.0	2.3.0 (1.1.0)	0.0.0	0.4.0	0.0.0	0.0.0	0.0.0	2.2.0
*		BROXBOURNE	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
		CHEMNITZ	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
		DEBRECEN	2.2.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	3.1.0
*		EBELTOFT	0.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		HAMBURG	1.2.0	1.2.3 (0.0.3)	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0	2.2.0
		KARLSRUHE	0.2.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	0.1.0
		KRAKOW	0.1.0	0.0.1 (0.0.1)	1.1.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		LIBEREC	1.1.0	3.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	4.1.0
		LODZ	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
		NEUNKIRCHEN	0.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0	0.0.0
		NYIREGYHAZA	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.0.0	0.0.0	0.0.0	1.1.0
		PARIS-JARDIN	3.1.0	1.1.0 (0.0.0)	0.1.0	2.0.0	0.0.0	0.0.0	0.1.0	2.2.0
		PLAISANCE-TOUCH	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
		PLZEN	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
		ROSTOCK	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
		THOIRY	2.1.0	0.2.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.1.0	1.2.0
		ZAGREB	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 (19)	14.25.0	8.8.4 (1.1.4)	4.5.0	4.5.0	1.0.0	0.0.0	0.9.0	22.23.0

Summary

In the time from 01.01.2007 until 31.12.2008 the North Chinese leopard EEP continued forming possible breeding pairs and finding new holders. In the beginning of 2007 there where 14.25 animals kept in 16 institutions. In the end of 2008 19 institutions participated and kept 22.23 individuals. Three more zoos are willing to start with North Chinese leopards in 2009.
Main problems to solve are: doing genetic tests to find out if the six animals with unknown pedigree are pure Chinese leopards or not and finding more holders to establish a stable population in the EEP region. This last point is very important, because Europe is the only region in the world running a program for this leopard subspecies.

Notes

The program is urgently looking for more participants!

Sri Lankan leopard
EEP Annual Report 2007 - 2008

1. Programme information

Sri Lankan leopard *Panthera pardus kotiya*

EEP established in 1996.

Goal(s)

Percentage of gene diversity 87% saved in 100 years.

2. Programme personnel

Species Coordinator

Thierry Jardin (Lisieux)

Species Committee members

Tom de Jongh (Arnhem)
Gary Batters (Banham)
Jiri Dobias (Brno)
Brice Lefaux (Doue-fontaine)
Jesus Recuero (Fuengirola)
Jan Vasak (Jihlava)
Gregory Breton (Nesles)
Jirka Novak (Ostrava)

Veterinary advisor

François-Pierre Huyghe (Lisieux)

3. Activities

Species Committee

Last election: 2008
Last meeting: 9 November 1999 Basel

Conservation activities

Miththapala et al. (1996) and Uphyrkina et al. (2001) recognized P. p. kotiya on the basis of molecular markers, and found it to have the closest relationship, as expected, with the P. p. fusca subspecies of the Indian subcontinent, which was probably the source population.

Kittle and Watson from the Wilderness and Wildlife Conservation Trust (WWCT) carry out leopard presence-absence surveys around Sri Lanka intermittently for the past 9 years. The extent of occurrence (EOO) of the leopard in Sri Lanka is estimated at 37,650 km² which is > 50% of the country. However, the area of occupancy (AOO) where reproductive adult leopards have been verified as existing is 11,000 km².

No subpopulation is larger than 250, and the population is believed to be declining due to numerous threats including poaching for trade (primarily to India) and human-leopard conflict (Kittle and Watson 2005). Due to these factors the estimated number of leopards in Sri Lanka seems to be around 700 – 950.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2005
Next edition: 2009

Husbandry guidelines

Not yet published.

Sri Lankan leopard
EEP Annual Report 2007 - 2008

5. Status

Status and developments over the year 2007 - 2008

Sri Lankan leopard
Panthera pardus kotiya

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		ARNHEM	3.5.0	3.0.0 (0.0.0)	1.0.0	2.3.0	0.0.0	0.0.0	1.0.0	4.2.0
		BANHAM	2.3.0	0.2.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.1.0	1.3.0
*		BARCELONA-ZOO	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
		BEST_NE	1.2.0	0.0.0 (0.0.0)	1.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		BRATISLAVA	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
		BRNO	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
		DOUE-FONTAINE	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
		EMMEN	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
		FUENGIROLA	1.1.0	0.1.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		HAMM_NE	0.3.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.2.0	1.1.0
		JIHLAVA	3.1.0	0.0.0 (0.0.0)	0.2.0	2.1.0	0.0.0	0.0.0	0.0.0	1.2.0
*		LES-MATHES	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
		LISIEUX	2.2.0	0.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.1.0	0.1.0
		NESLES	1.1.0	0.3.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	1.0.0	0.3.0
		OSTRAVA	1.0.0	0.2.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		SINGAPO-ZOO_NE	4.0.0	0.0.0 (0.0.0)	0.1.0	1.0.0	0.0.0	0.0.0	0.0.0	3.1.0
		ST-MARTIN-PLAIN	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
*		VALENCIA-PARC	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
		VESZPREM	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
		WARSZAWA	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)	24.25.0	3.8.0 (0.0.0)	12.7.0	12.7.0	0.0.0	0.0.0	2.4.0	25.29.0

Summary

Light increase in the population during 2007-2008. We had important births at Arnhem. Unfortunately, due to lack of new participants, few breeding recommendations could be made. To ensure proper genetic management, the Sri Lankan Leopard EEP requires new participants.

Notes

Comprehensive Husbandry Guidelines for leopards have been edited in 2009 and are available on EAZA website. Houssaye, F. & Budd, J.E. (eds) 2009. EAZA Leopard Panthera pardus ssp. Husbandry Guidelines. EAZA Felid TAG. European Association of Zoos and Aquaria. Amsterdam, Netherlands.

Amur leopard

EEP Annual Report 2007 - 2008

1. Programme information

Amur leopard *Panthera pardus orientalis*

EEP established in 1993.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Additional comments

Overall, the goal of this conservation breeding programme is a bigger thing than numbers or genetic diversity. It is to provide the maximum possible conservation support for the taxon in the wild, via all available channels.

We have not set specific number goals but are seeking to grow the population size and also to produce sufficient numbers of young leopards with less than 20% founder 2 (not an Amur leopard) that we can provide animals for breed and release that will be acceptable to the Russians for reintroduction. When there is an approved plan with suggestions for how many leopards to release, this will inform our population growth strategy.

The EEP does not have any information on EAZA member space allocations.

Genetically, we are unlikely to be able to achieve 90% over 100 years without new founder material; we are simply trying to conserve as much GD as possible.

2. Programme personnel

Species Coordinator

Sarah Christie (London)
Tanya Arzhanova (Moskva)

Species Committee members

Francesco Rocca (Agrate)
Claus Pohle (Berlin-tierpark)
Stefan Stadler (Frankfurt)
Leif Blomqvist (Helsinki)
Tanya Arzhanova (Moskva)
Pavel Brandl (Praha)
Mati Kaal (Tallinn)

Veterinary advisor

John Lewis (Org-izvg_NE)

3. Activities

Species Committee

Last election:

Last meeting: 9 September 2006 Madrid-faunia

Conservation activities

Field conservation activities are coordinated by the Amur Leopard and Tiger Alliance (ALTA) and encompass leopard and prey monitoring by WCS Russia, antipoaching and awareness by Phoenix, and firefighting and wildlife health by ZSL.

The EEP encourages participants to support these conservation activities via the website www.Amur-leopard.org, and financial contributions from EAZA (and to a lesser extent AZA) zoos are vital for the continuation of the work. Funds also come from other ALTA partners. WWF Russia helps to support WCS´s monitoring work, and an antipoaching team in leopard range.

Access to the pics and information on the website is free to all, but please use them only for conservation purposes, not commercial. Any queries should be sent to AmurLeopardProgramme@zsl.org (the post is staffed by a series of volunteers, so we use a generic address).

The Amur leopard is one of only two large(ish) cat taxa for which a reintroduction from captive stock is endorsed by the IUCN/SSC Cat Specialist Group (the other is the Iberian lynx). The reintroduction plan, written by a group of stakeholders including ZSL, WCS, WWF and Russian scientific institutions, has been some years in the drafting but is now complete and is due to be approved shortly. Funds are of course needed, but to raise them one must first have a written programme.

Research activities

In the field, WCS Russia carry out research into leopard ecology and distribution; ZSL, WCS and WVI are investigating the medical status of wild leopards and other species in the region; and ZSL and Phoenix are looking at the attitudes of local people in the leopard´s current range. As reintroduction plans progress, the social surveys will also encompass the selected reintroduction area, where disease monitoring is also beginning.

WVI and ZSL are investigating the health status of the zoo leopards as part of the preparations for reintroduction.

4. Publications

Studbook

Recent edition: 2008

Next edition: 2009

Husbandry guidelines

Published in 2008.

5. Status

Status and developments over the year 2007 - 2008

Amur leopard
Panthera pardus orientalis

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		AGRATE	1.0.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	1.0.0	1.1.0
		ALMATY	1.1.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	2.1.0
		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	1.0.0
		ANTWERPEN	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
		AUGSBURG	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
		BERLIN-TIERPARK	1.5.0	0.0.0 (0.0.0)	1.0.0	1.2.0	0.0.0	0.0.0	0.0.0	1.3.0
*		BERLIN-ZOO	0.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
*		BEWDLEY	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
		BROXBOURNE	2.0.0	2.0.1 (0.0.1)	2.1.0	2.0.0	0.0.0	0.0.0	0.0.0	4.1.0
		BURFORD	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
		CHARD	3.2.0	0.0.0 (0.0.0)	0.0.0	2.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		CHELYABINSK-ZOO_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
		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
		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
		DEIGNE	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
		DORTMUND	2.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	2.1.0	1.0.0
*		EDINBURGH	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
*		ESKILSTUNA	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
		FRANKFURT	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
		GOSSAU	1.2.0	2.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	2.1.0	0.0.0	1.2.0
		GREAT-YARMOUTH	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.1.0	0.0.0	1.1.0
		HELSINKI	2.2.0	1.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	1.0.0	1.2.0
		HUNNEBOSTRAND	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
		KAUNAS	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
		KHARKIV_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
		KOBENHAVN-ZOO	1.1.0	2.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0	1.2.0
		KRASNOYARSK_NE	2.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		LEIPZIG	1.1.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		LIGNANO	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
		LIPETZK-ZOO_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
		LYON	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
		MARWELL	1.1.0	1.2.0 (1.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		MINSK_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
		MONTPELLIER	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
		MOSKVA	3.4.0	2.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	2.2.0	3.1.0
		MULHOUSE	2.2.0	3.0.0 (0.0.0)	0.1.0	3.0.0	0.0.0	0.2.0	0.0.0	2.1.0
		MYKOLAYIV	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
		NESLES	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
		NOVOSIBIRSK	3.3.0	2.2.0 (2.2.0)	0.1.0	0.0.0	0.0.0	0.0.0	1.2.0	2.2.0
		OLOMOUC	1.3.0	3.2.0 (1.1.0)	0.0.0	1.2.0	0.0.0	0.0.0	0.0.0	2.2.0
		PONT-SCORFF	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
		PRAHA	1.3.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		RHENEN	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
		ROSTOV_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
		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	2.1.0
		SEVERSK_NE	3.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.2.0
		TALLINN	1.1.0	2.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.2.0
		TWYCROSS	3.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.1.0	2.0.0
		USTI-NAD-LABEM	1.2.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		Total (49)	62.56.0	21.12.1 (4.4.1)	11.8.0	11.8.0	0.0.0	3.5.0	10.10.0	66.49.0

Amur leopard

EEP Annual Report 2007 - 2008

Summary

Not specified.

Persian leopard

EEP Annual Report 2007 - 2008

1. Programme information

Persian leopard *Panthera pardus saxicolor*

EEP established in 1985.

Goal(s)

Percentage of gene diversity 80% saved in 50 years.

Target population size A= 0 and B= 110

Additional comments

Population management is restricted by space allocated to the subspecies.

2. Programme personnel

Species Coordinator

Martina Raffel (Munster)

Veterinary advisor

Sandra Silinski (Munster)

3. Activities

Species Committee

Last election: No election ever held.

Last meeting:

Conservation activities

- Persian Leopard Ecology and Conservation in Bamu National Park, Iran by Plan for the Land Society (Amirhossein Kh. Hamidi, a.h.khaleghi@gmail.com, and Arash Ghoddousi, arash.ghoddousi@gmail.com);
- Leopard Conservation in Iran by the Iranian Cheetah Society (Mohammad Farhadinia, msfarhadinia@wildlife.ir);
- Persian Leopard Conservation Society (Ali Aghili, aagili9@yahoo.co.uk);
- Distribution & conservation research in Armenia by Igor Khorozyan, leopard_am@yahoo.com;
- Leopard conservation in Afghanistan by Abdul Razaq Manati, razaqmanati@yahoo.com (Ph.D. study supervised by Cologne Zoo);
- In May 2007, the “Caucasus Near-Eastern Leopard Reintroduction Project” has been started by WWF which aims at restoring a stable population of leopards to their historical range in the Russian portion of the Caucasus.

Research activities

- Felid-Gametes-Rescue-Project (request for felid gametes for use in developing IVF and embryo transfer protocols for wild cats);
- Verification of a new test for detecting late pregnancy (faecal samples of females need to be daily collected after mating and during presumed pregnancy).

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- Genetic analysis of leopard subspecies and individuals:
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4. Publications

Studbook

Recent edition: 2007
Next edition: 2010

Husbandry guidelines

Not yet published.

5. Status

Status and developments over the year 2007 - 2008

Persian leopard
Panthera pardus saxicolor

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		AALBORG	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
		ADELAIDE_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
		ALMATY	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
		AMERSFOORT	2.2.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		AMNEVILLE	2.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	1.0.0	1.1.0
		BERLIN-ZOO	2.2.0	2.1.0 (1.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	3.2.0
		BERN	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
		BOJNICE	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
		BRATISLAVA	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
		BUDAPEST	1.1.0	1.4.0 (0.0.0)	0.0.0	1.2.0	0.0.0	0.0.0	0.0.0	1.3.0
		BURGSTARGARD_NE	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
		CHAMPREPUS	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
		CHEMNITZ	2.1.0	2.0.1 (0.0.1)	0.0.0	1.0.0	0.0.0	0.0.0	1.0.0	2.1.0
		CHESSINGTON	1.2.0	1.2.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	2.3.0
		CHISINAU_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	2.0.0
		DARICA	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
		DECIN	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
		DOUE-FONTAINE	1.2.0	0.3.0 (0.2.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.2.0
		DVUR-KRALOVE	1.2.0	1.1.0 (0.0.0)	0.0.0	0.1.0	0.0.0	1.0.0	0.0.0	1.2.0
		GDANSK	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
		HANNOVER	2.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	1.0.0	0.1.0	1.1.0
		HILVARENBEEK	1.0.0	0.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0
		JERUSALEM	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
		JIHLAVA	1.1.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
*		KATOWICE	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
		KAUNAS	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
		KHARKIV_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
		KLINGENTHAL_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
		KOLN	3.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.1.0
		LISBOA-ZOO	1.1.0	3.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.1.0
		LJUBLJANA	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
		MELBOURNE_NE	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
		MULHOUSE	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	0.2.0	0.0.0 (0.0.0)	1.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		NESLES	1.1.0	0.0.0 (0.0.0)	2.1.0	0.0.0	0.0.0	0.0.0	2.1.0	1.1.0
		NORDHORN	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
		NOVOSIBIRSK	4.1.0	0.0.0 (0.0.0)	0.2.0	0.0.0	0.0.0	0.0.0	1.1.0	3.2.0
	*	ODESSA_NE	2.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		PELISSANE	1.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0	1.0.0
		PLOCK	1.1.0	0.1.0 (0.1.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		RAMAT-GAN	1.1.0	0.0.2 (0.0.2)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
*		ROMA	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
		ST-AIGNAN	1.1.0	1.2.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.2.0
		STUTTGART	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
		TALLINN	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
		USTI-NAD-LABEM	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
		YEREVAN_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
		Total (47)	57.42.0	13.14.3 (1.3.3)	7.10.0	7.10.0	0.0.0	2.0.0	11.5.0	56.48.0
*		Non-EAZA Institutions	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

Persian leopard

EEP Annual Report 2007 - 2008

Discrepancy notes

Persian leopard
Panthera pardus saxicolor

CHISINAU_NE	The status on 1 Janury 2007 is 2.0.0 instead of 3.1.0 as listed on 31 December 2006. 1.1 animals had died already in 2002 and 2004 respectively, but have only now been reported to the EEP.

Summary

In 2007 and 2008, the EEP population slightly increased, with 56.49 individuals at the end of 2008.
The number of EEP participants remained almost stable, with two institutions (Katowice and Rome) joining the programme and Usti ceasing participation.

The problems of the programme remain the same as in the past years: The number of zoos which want to keep Persian leopards stagnates. New participants are more than welcome to join the programme and make space available for this leopard subspecies which totally relies on the efforts of the EAZA institutions!

Several institutions produced offspring without breeding recommendations. Due to the existing animal surplus list, it is vital that institutions contact the Coordinator before breeding - otherwise it may be difficult to find a place for the offspring in due time.

Tiger

EEP Annual Report 2007 - 2008

1. Programme information

Amur tiger	*Panthera tigris altaica*
Sumatran tiger	*Panthera tigris sumatrae*

EEP established in 1985.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Additional comments

For both the Sumatran and Amur tiger programmes the aim is to continue to provide the maximum conservation support possible for the taxa in the wild.

For the Sumatran programme we are looking to increase numbers and the EEP is run in conjunction with the ASMP. A GSMP is in the process of being set up.

For the Amur programme we are looking to maintain current numbers and working in closer conjunction with the EARAZA population.

2. Programme personnel

Species Coordinator

Malcolm Fitzpatrick (London)

Species Committee members

Sander Hofman (Antwerpen)
Wineke Schoo (Arnhem)
Sarah Forsyth (Colchester)
Brice Lefaux (Doue-fontaine)
Paul o'Donoghue (Dublin)
Leif Blomqvist (Helsinki)
Lars Versteege (Hilvarenbeek)
Thomas Lind (Kolmarden)
Lydia Kolter (Koln)
François-Pierre Huyghe (Lisieux)
John Pullen (Marwell)
Gregory Breton (Nesles)
Pavel Brandl (Praha)
Martin van Wees (Rotterdam)
Maria Krakowiak (Warszawa)

Conservation advisor

Sarah Christie (London)

Veterinary advisor

John Lewis (Org-izvg_NE)

General advisor

Andrew Kitchener (Edin-museum_NE)

3. Activities

Species Committee

Last election: 2008
Last meeting: 17 September 2009 Kobenhavn-zoo

Conservation activities

Links with 21st Century Tiger and Amur Leopard and Tiger Alliance.

Research activities

Due to the emergence of a hybrid issue within the Amur tiger population, DNA testing of certain founder lines within the Amur and Sumatran populations is to be undertaken. Lines have been identified where sub-specific purity could be questioned and the testing is to prove these animals pure-bred or not so that breeding from these lineages can continue without doubt or be stopped if necessary. This is to prevent a repeat of such unfortunate events in the future.

Tola Oni, a PhD student from IoZ did a pilot study on captive Sumatran tiger faecal samples to assist in Sumatran tiger conservation. DNA markers were validated in this study and are now being used to analyse wild tiger scats in Sumatra. Tola will use individual genotypes and geographic data to identify levels of genetic variation, population structure (no. of subpopulations, how differentiated they are, rates of migration between subpopulations) and effective population size.

Louise Bell, and MSc student at University of Leeds, is expanding the work she´s done on Amur leopards to other big cats, analyzing cortisol levels found in faeces prior and subsequent to transfers between zoos. This coupled with the behavioural observations she makes may prove useful in gauging the impact such transfers have on individual animals.

4. Publications

Studbook

Recent edition: 2006
Next edition: 2010

Husbandry guidelines

Not yet published.

5. Status

Status and developments over the year 2007 - 2008

Amur tiger
Panthera tigris altaica

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		AALBORG	2.2.0	1.3.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	2.4.0
		AGRATE	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
		ALMATY	1.5.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0	1.5.0
		AMERSFOORT	2.2.0	2.0.0 (1.0.0)	1.0.0	1.1.0	0.0.0	0.0.0	1.0.0	2.1.0
		AMNEVILLE	1.1.0	1.2.0 (0.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		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
		ASCHERSLEBEN_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	0.0.0
		ASSON_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
		BANDHOLM	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
		BANHAM	1.1.0	2.4.0 (0.4.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.1.0
		BEKESBOURNE	1.0.0	2.1.2 (0.0.2)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	3.2.0
		BERLIN-TIERPARK	2.1.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	2.1.0
		BESANCON	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
		BLACKPOOL	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
		BORAS	0.1.0	0.0.0 (0.0.0)	3.0.0	0.0.0	0.0.0	0.0.0	0.1.0	3.0.0
		BROXBOURNE	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
	*	BUDAPEST	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
*		BUSSOLENGO	0.0.0	0.0.0 (0.0.0)	1.2.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
*		CHELYABINSK-ZOO_NE	1.5.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.1.0	0.0.0	1.3.0
		CHEMNITZ	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
		COLCHESTER	1.1.0	3.0.1 (3.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		DALTON-FURNESS	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
		DEBRECEN	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
		DOMPIERRE	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
		DUBLIN	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
		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	4.3.0	2.1.0 (1.1.0)	0.0.0	3.2.0	0.1.0	0.0.0	0.1.0	2.1.0
		EBERSWALDE	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
		EDINBURGH	1.1.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0
		EMMEN	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
		FARJESTADEN	3.4.0	2.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	5.4.0
		GELSENKIRCHEN	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
		GOSSAU	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	2.1.0	1.0.0	0.0.0	3.2.0
		HAIFA	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
		HAMBURG	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
*		HAMM_NE	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0	0.0.0
		HANNOVER	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
		HELSINKI	1.1.0	1.1.0 (1.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		HILVARENBEEK	1.1.0	1.2.4 (0.0.4)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		HODONIN_NE	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
		HOYERSWERDA	1.0.0	0.3.0 (0.0.0)	1.1.0	1.0.0	0.0.0	0.0.0	1.0.0	0.4.0
		HUNNEBOSTRAND	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
		HAAG_NE	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
		JURQUES	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
	*	KATOWICE	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
*		KAUNAS	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
*		KINGUSSIE	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
		KOBENHAVN-ZOO	3.1.0	4.0.0 (1.0.0)	0.0.0	3.0.0	0.0.0	0.0.0	2.0.0	1.1.0
		KOLMARDEN	3.4.0	3.3.2 (2.0.2)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	4.6.0
		KOLN	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

	KRAKOW	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
	KRENGLBACH	1.1.0	1.3.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.4.0
	KRISTIANSAND	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
	LEIPZIG	3.2.0	3.1.0 (1.0.0)	0.1.0	0.0.0	0.0.0	1.0.0	0.0.0	4.4.0
	LIGNANO	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
	LINTON	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
	LISBOA-ZOO	3.2.0	0.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	2.3.0
	LJUBLJANA	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
	LODZ	1.1.0	0.2.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
	LYMPNE	1.1.0	0.2.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
	MADRID-ZOO	1.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0	1.1.0
	MAGDEBURG	1.1.0	2.1.0 (2.1.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
	MALTON	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
	MARWELL	4.2.0	2.3.0 (2.3.0)	0.0.0	1.1.0	0.0.0	0.0.0	1.0.0	2.1.0
*	MIERLO	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
*	MOSKVA	1.5.0	2.2.0 (0.0.0)	0.0.0	0.3.0	0.2.0	1.1.0	0.0.0	2.5.0
	MULHOUSE	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
	MUNCHEN	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
	MUNSTER	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
*	MYKOLAYIV	0.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0
	NESLES	2.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.1.0	0.0.0	0.0.0	2.2.0
*	NEUWIED	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
	NURNBERG	1.1.0	0.0.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0
	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
	ODENSE	1.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0	1.0.0
	OLOMOUC	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
*	ORSA	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
	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
	OSTRAVA	3.1.0	0.2.2 (0.0.2)	0.0.0	3.0.0	0.0.0	0.0.0	0.0.0	0.3.0
	PELISSANE	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
	PLAISANCE-TOUCH	0.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0
	PLEUGUENEUC	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
	PLZEN	0.3.0	0.0.0 (0.0.0)	1.0.0	0.2.0	0.0.0	0.0.0	0.0.0	1.1.0
	PORT-ST-PERE_NE	2.0.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.0.0
	POZNAN	3.2.0	2.2.0 (1.2.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	4.1.0
	PRAHA	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
	RHENEN	2.3.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.3.0
	RIGA	1.1.0	0.0.0 (0.0.0)	2.1.0	1.0.0	0.0.0	0.0.0	0.0.0	2.2.0
	SCHWERIN	3.1.0	1.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	2.1.0
	SERVION	0.1.0	4.1.0 (4.1.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
	ST-MARTIN-PLAIN	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
	STRAUBING	0.1.0	0.0.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.0.0
	TALLINN	1.2.0	1.0.1 (1.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
	VESZPREM	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
	WARMINSTER	0.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0
	WHIPSNADE	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
	WIEN-ZOO	2.2.0	0.2.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.1.0	1.2.0
	WOBURN	0.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.2.0
	WUPPERTAL	0.0.0	0.0.0 (0.0.0)	2.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
	ZAGREB	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.0.0	1.0.0	0.0.0
	ZLIN	1.1.0	5.3.0 (5.3.0)	1.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
	ZURICH	2.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
	Total (102)	117.135.0	49.48.14 (25.17.14)	24.15.0	24.15.0	2.5.0	4.3.0	12.17.0	126.151.0

Sumatran tiger
Panthera tigris sumatrae

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.

	AMNEVILLE	1.1.0	1.0.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
	AMSTERDAM	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
*	ARNHEM	0.0.0	0.0.0 (0.0.0)	0.3.0	0.0.0	0.0.0	0.0.0	0.0.0	0.3.0
	AUGSBURG	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
	BARCELONA-ZOO	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
	BEKESBOURNE	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
*	BENIDORM	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
	BERLIN-TIERPARK	2.2.0	0.0.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
	BRATISLAVA	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
	BRNO	1.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	2.0.0	0.1.0
	BROXBOURNE	1.1.0	2.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.1.0
	CHAMPREPUS	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
	CHESSINGTON	1.4.0	1.1.0 (0.0.0)	0.0.0	1.3.0	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
	COLWYN-BAY	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
	DALTON-FURNESS	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	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
	DOUE-FONTAINE	1.0.0	0.0.0 (0.0.0)	0.2.0	0.0.0	0.0.0	0.0.0	1.0.0	0.2.0
	DUBLIN	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
	DUDLEY	3.1.0	0.0.0 (0.0.0)	0.2.0	2.2.0	0.0.0	0.0.0	1.0.0	0.1.0
*	EDINBURGH	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
*	ESKILSTUNA	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
	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
	FUENGIROLA	2.1.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.0.0	0.0.0	1.2.0
	GREAT-YARMOUTH	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
	HEIDELBERG	1.3.0	1.1.0 (0.0.0)	0.0.0	1.3.0	0.0.0	0.0.0	0.0.0	1.1.0
	JERUSALEM	1.1.0	1.0.2 (1.0.2)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
	JIHLAVA	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
	KREFELD	1.1.0	0.2.3 (0.0.3)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0
	LISBOA-ZOO	0.1.0	3.2.1 (3.2.1)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
	LISIEUX	1.0.0	0.0.0 (0.0.0)	2.1.0	0.1.0	0.0.0	0.0.0	1.0.0	2.0.0
	LONDON	1.1.0	0.0.0 (0.0.0)	0.2.0	0.2.0	0.0.0	0.0.0	0.0.0	1.1.0
	NESLES	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
	OBTERRE	1.1.0	0.0.0 (0.0.0)	1.1.0	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0
	PAIGNTON	1.2.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.1.0
	PELISSANE	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
	PORT-ST-PERE_NE	2.0.0	0.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	0.0.0
	PRAHA	1.1.0	2.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	2.1.0
	RAMAT-GAN	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
	RHEINE	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
	ROTTERDAM	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
	SABLES-OLONNE	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
	SANTILLANA	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
*	ST-AIGNAN	0.0.0	0.0.0 (0.0.0)	1.2.0	1.1.0	0.0.0	0.0.0	0.0.0	0.1.0
	STUTTGART	1.1.0	2.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	2.1.0
	TAMWORTH_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	2.0.0
	USTI-NAD-LABEM	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
	VESZPREM	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
	WARSZAWA	1.1.0	0.2.0 (0.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
	WUPPERTAL	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 (50)	44.48.0	13.10.7 (5.3.7)	11.17.0	11.17.0	0.0.0	1.0.0	8.4.0	43.51.0

Tiger

EEP Annual Report 2007 - 2008

Summary

The main issue that arose in the Amur tiger EEP in 2007 was the discovery of an hybrid animal. This animal had been tested for subspecific purity in the past and the EEP had been given assurance it was pure-bred. However, stored samples of the DNA material were retested as part of a research project and it was at this point the animal was discovered to carry Sumatran alleles.

On discussion with the Felid TAG and EAZA, the Tiger EEP decided to remove the descendants of this animal from the breeding population. Analysis has shown that the genetic diversity of the population is not statistically affected by the removal of this bloodline, but it has had and is continuing to have huge practical implications on the EEP and especially the holders of affected animals.

In order to prevent such a situation arising again in the future, Peter Mueller, the International Tiger Studbook Keeper, has identified bloodlines in both the Sumatran and Amur populations where there may be some doubt over subspecific purity. The intention is to now have animals from these bloodlines DNA tested to prove / disprove their purity. Affected animals within the EARAZA population will also be tested.

Once this has been done the EEP can proceed with breeding recommendations in confidence that all animals are pure-bred. We will still be relying on the good will of participants to hold the hybrid animals until the bloodlines die out. Unfortunately this means valuable zoo space will be tied up with non-breeding animals for many years to come but the hybrid tigers are still great exhibit animals and can still be used for educational purposes.

Both Amur and Sumatran populations are currently growing within the EEP.

Snow leopard

EEP Annual Report 2007 - 2008

1. Programme information

Snow leopard *Uncia uncia*

EEP established in 1987.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

Leif Blomqvist (Helsinki)

Species Committee members

Inna Kuzminych (Moskva)

Jean-Marc Lernould (Mulhouse)

3. Activities

Species Committee

Last election: 1996

Last meeting:

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2008

Next edition: 2009

Husbandry guidelines

Not yet published.

5. Status

Status and developments over the year 2007 - 2008

Snow leopard
Uncia uncia

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos In	EAZA zoos Out	non-EAZA zoos In	non-EAZA zoos Out	Deaths	31. Dec.
		AGRATE	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
		AHTARI	3.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	1.0.0	1.1.0
*		ALMATY	0.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.1.0	0.0.0	0.0.0	1.1.0
		AMNEVILLE	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
		ARDES-COUZE_NE	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
		ASSON_NE	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
		ATHINAI	0.1.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0
		AVINTES	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
		BANHAM	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
		BASEL	2.1.0	1.2.0 (1.2.0)	0.1.0	1.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		BEKESBOURNE	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
		BERGAMO_NE	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-TIERPARK	1.1.0	2.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	1.0.0	0.0.0	1.1.0
		BROXBOURNE	3.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.1.0	0.0.0	0.0.0	2.2.0
		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
		CHISINAU_NE	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
		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
		COLWYN-BAY	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
		DOUE-FONTAINE	1.2.0	0.0.0 (0.0.0)	1.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		DRESDEN	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
		DUBLIN	1.3.0	0.0.0 (0.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.0.0	1.1.0
		DUDLEY	1.1.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	1.1.0	0.1.0
		GREAT-YARMOUTH	0.3.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	0.2.0
		HELSINKI	2.3.0	0.0.4 (0.0.4)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.2.0
		HUNNEBOSTRAND	1.2.0	1.1.0 (0.0.0)	0.1.0	0.1.0	0.0.0	0.0.0	0.0.0	2.3.0
		JIHLAVA	2.2.0	3.1.0 (0.0.0)	1.0.0	3.0.0	0.0.0	0.0.0	0.0.0	3.3.0
		JURQUES	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
		KALININGRAD_NE	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
		KARLSRUHE	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
		KATOWICE	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
		KAUNAS	1.1.0	1.1.0 (1.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		KAZAN	1.0.0	0.0.0 (0.0.0)	0.2.0	0.0.0	0.0.0	0.0.0	0.1.0	1.1.0
		KOLMARDEN	1.1.0	0.2.2 (0.1.2)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	1.1.0
		KOLN	2.3.0	0.0.1 (0.0.1)	1.0.0	1.2.0	0.0.0	0.0.0	0.0.0	2.1.0
		KRAKOW	1.1.0	3.0.0 (0.0.0)	0.0.0	3.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		KREFELD	2.1.0	2.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.1.0	2.0.0
		LEIPZIG	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
		LES-MATHES	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
		LIBEREC	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
		LIGNANO	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
		LILLE	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
		LINTON	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
		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
		LODZ	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
		LYMPNE	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
		MAGDEBURG	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
		MARWELL	2.1.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	1.0.0	0.1.0
		MECHELEN	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	1.0.0	0.0.0	1.0.0	1.1.0
		MOSKVA	2.4.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.1.0	2.2.0
		MULHOUSE	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

	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
	MYKOLAYIV	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
	NESLES	1.1.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	1.1.0	1.1.0
	NEUWIED	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
	NINDORF_NE	1.3.0	0.0.0 (0.0.0)	1.0.0	0.1.0	0.0.0	0.0.0	1.0.0	1.2.0
	NOVOSIBIRSK	1.3.0	0.0.0 (0.0.0)	0.0.0	0.1.0	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	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
	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
	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
	OSTRAVA	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
*	PARIS-JARDIN	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
	PEAUGRES	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
	PLOCK	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
	PLZEN	1.0.0	1.1.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
*	PONT-SCORFF	0.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0
	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
	ROSTOCK	1.1.0	1.1.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
	SALZBURG-ZOO	1.1.0	1.2.0 (1.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.0.0	1.1.0
*	SANDWICH_NE	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
	SANTILLANA	2.1.0	0.0.2 (0.0.2)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
	SCHWERIN	0.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	0.0.0
	ST-AIGNAN	1.1.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.1.0	0.0.0	1.0.0	1.2.0
	ST-MARTIN-PLAIN	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
	ST-PETERSBURG	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
	STUTTGART	1.1.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	0.2.0
	SZEGED	1.1.0	2.0.1 (1.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
	TALLINN	2.1.0	1.0.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0
	THOIRY	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
*	TREGOMEUR	0.0.0	1.1.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
	USTI-NAD-LABEM	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
	WARSZAWA	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
	WUPPERTAL	0.0.0	0.0.0 (0.0.0)	2.1.0	1.0.0	0.0.0	0.0.0	0.0.0	1.1.0
*	YEKATERINBUR_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	2.0.0
	ZAGREB	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
	ZURICH	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
	Total (86)	84.97.0	21.14.10 (6.4.10)	18.15.0	18.15.0	1.4.0	1.0.0	12.13.0	87.98.0

Discrepancy notes

Snow leopard
Uncia uncia

BEKESBOURNE	The status on 1 January 2007 is 1.1.0 instead of 1.0.0 as listed on 31 December 2006.
BROXBOURNE	The status on 1 January 2007 is 3.1.0 instead of 3.2.0 as listed on 31 December 2006.

Summary

In 2008, the 9th volume of the international studbook was published (Blomqvist 2008 a). The book has been mailed to all facilities involved in snow leopards. Additional copies can be obtained in printed or electronic form from the studbook keeper. The studbook covering the captive situation until 1-1-2008, also contains a detailed report of the development in the EEP population in 2007 (Blomqvist 2008 b). A short summary of the development of the 2008 global population has also been published by the same author (Blomqvist 2009).

In 2007-2008, reproduction took place in 20 institutions with 45 (21.14.10) cubs born. As 20 out of 45 cubs did not survive, the juvenile mortality amounted 44%. In addition to the cub mortality, 25 adult snow leopards also died and the program consequently lost as many as 45 individuals during the monitored period.

To improve the breeding potentials in the two main breeding programs, SSP and EEP, a mutual agreement was reached between the species coordinators in 2007, to exchange animals. Zoo Beauval in St. Aignan and Planckendael in Mechelen thus got a captive-bred pair from the zoos in Manhattan, Kansas and the Bronx. In exchange Tierpark Berlin assisted the SSP with a young male. A female has also been reserved from Agrate and will leave later. A third most important addition was the arrival of a captive-bred female to Almaty Zoo. The female arrived from the breeding program (SSCJ) in Japan, and being born under a wild-caught dam, she represents a new gene-line in the European breeding pool. An additional female born in Winnipeg was finally imported to St. Petersburg in 2008.

A total of four snow leopards therefore arrived from other continental breeding programs in 2007-2008, simultaneously as one male left the EEP. Three zoos which had kept the species in the past, Menagerie du Jardin des Plantes in Paris, Almaty and Pont-Scorff, re-joined the program, while two new participants, Tregomeur and the Rare Species Conservation Centre in Sandwich got their first snow leopards in 2007-2008.

The EAZA Felid TAG has set a target population of 200 snow leopards within the region. After reaching a peak with 223 animals in 1994, the EEP has exhibited a decline of 18% (lambda = 0.82). Partly due to the high cub mortality, but also because the population contained several old animals which were lost during the two years' time interval, the population has not yet reached that level and stands at 185 (87.98) animals on 1.1.2009. To reach the target population, the high cub mortality must be reduced. Blomqvist has shown (2008 b), that 39% of all cubs born 1987-2007 have died before they reached the age of one year. This clearly indicates management and husbandry problems which should be open to further improvements in the EEP.

Notes

Publications:

Blomqvist, Leif (2008 a): International Pedigree Book for Snow leopards, Uncia uncia. Volume 9. 175 pp. Helsinki Zoo

Blomqvist, Leif (2008 b): The status of the Snow leopard in the EEP-program in 2007. Int. Ped. Book for Snow leopards 9: 20-24. Helsinki Zoo

Blomqvist, Leif (2009): The 2008 census for the global stock of snow leopards in captivity outside China. Helsinki Zoo Ann. Rep. 2008: 32-34. Helsinki Zoo