

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 Camelid and Cattle TAG

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Dwarf forest buffalo (*Syncerus caffer nanus*) ESB (by Dave Brunger)

Anoa (*Bubalus depressicornis*) EEP (by Gerd Notzold) (No report available)

EAZA Camelid and Cattle TAG Annual Report 2007 - 2008



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

TAG chair:	Gary Batters, Banham	garybatters@banhamzoo-gb.freeserve.co.uk
TAG vice-chair:	Terry Hornsey, Kessingland	terry.hornsey@africa-alive.co.uk
TAG members:	David Brunger (Chester) Danny de Man (Banham) François-Pierre Huyghe (Lisieux) Gerd Nötzold (Leipzig) Wanda Olech-Piasecka (Warsaw-uni_NE) Geraldine Pothet (Paris-jardin) Christian Schmidt (Zurich)	
TAG advisors:	General Behavioural Taxonomy Veterinary Francois-Pierre Huyghe, Centre d'Etudes et de Recherches zoologiques augeron (CERZA) Nutritional Andrea Fidgett, North of England Zoological Society Conservation James Burton, Earthwatch Research James Burton, Earthwatch Educational	
Current EEPs:	European bison (<i>Bison bonasus</i>) Gaur (<i>Bos gaurus</i>) Banteng (<i>Bos javanicus</i>) Anoa (<i>Bubalus depressicornis</i>) Vicuña (<i>Vicugna vicugna</i>)	
Current ESBs:	Dwarf forest buffalo (<i>Syncerus caffer nanus</i>)	
TAG meeting:	Date of last meeting: 19 September 2008 Last meeting hosted at Antwerpen Zoo (Royal Zoological Society of Antwerp).	
Regional Collection Plan:	Has a RCP been published? Yes Most recent edition published in 2008. Next edition to be published in 2011.	
Publications:	Husbandry guidelines.	

2. Information on developments during 2007 - 2008

- Geraldine Pothet (Menagerie du Jardin des Plantes) put forward as new EEP coordinator for Gaur.
- Danny de Man put forward to take over Dwarf forest buffalo ESB from Dave Brunger (Chester) with a view of elevating it to an EEP. New Monitor-P for African buffalo (Savannah taxa) taken on by Danny de Man as well.
- European bison EEP Evaluation completed in 2008 and results forward to the EEP Committee.
- Regional Collection Plan - Continues to be discussed and developed annually.
- The AZA Bison and Cattle husbandry guidelines were officially adopted as template for use by European collections in EAZA.
- Conservation - European bison re-introduction programme affiliated with IUCN.

3. TAG goals for 2009

- To improve the functioning of the European bison EEP.
- Discuss the need to upgrade the Dwarf forest buffalo ESB to an EEP.
- Carry out the evaluation of Anoa, Banteng and Vicuna EEP's.
- Continue to update RCP and transferring it to the new template.
- Publish the Cattle Husbandry Guidelines on the EAZA website.
- Collection and comparison of data on blue-tongue vaccinations of Camelid and Cattle species.
- Continue TAG support for Anoa genetic studies in both wild and captive animals being carried out by Dr. James Burton PhD.
- TAG to continue to forge strong conservation links with the IUCN/SSC Asian Wild Cattle Specialist Group.



1. Programme information

Vicuña

Vicugna vicugna

EEP established in 1985.

2. Programme personnel

Species Coordinator

Christian Schmidt (Zurich)

Species Committee members

Beatrix Kohler (Munchen)

Robert Zingg (Zurich)

Veterinary advisor

Bert Geyer (Frankfurt)

3. Activities

Species Committee

Last election: Over 5 years ago.

Last meeting:

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2008

Next edition: 2010

Husbandry guidelines

Not yet published.

5. Status

Status and developments over the year 2007 - 2008

Vicuña
Vicugna vicugna

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AALBORG	2.2.0	0.2.0 (0.1.0)	1.0.0	3.0.0	0.0.0	0.0.0	0.0.0	0.3.0
		AMSTERDAM	3.3.0	2.0.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0	2.3.0
		ANGERMUNDE_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
		ASCHERSLEBEN_NE	1.0.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		BELFAST	4.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.3.0
		BERLIN-TIERPARK	0.6.0	3.0.0 (1.0.0)	2.0.0	1.0.0	0.0.0	0.0.0	0.0.0	3.6.0
		BERLIN-ZOO	1.3.0	1.0.0 (0.0.0)	1.0.0	1.0.0	0.0.0	0.0.0	1.1.0	1.2.0
*		BESANCON	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
		BLACKPOOL	2.2.0	0.2.0 (0.1.0)	1.0.0	2.0.0	0.0.0	0.0.0	1.1.0	0.2.0
		CHESTER	3.2.0	0.2.0 (0.0.0)	1.0.0	2.0.0	0.0.0	0.0.0	1.1.0	1.3.0
		DECIN	0.1.0	0.0.0 (0.0.0)	1.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		DORTMUND	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
		DRESDEN	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
		EBELTOFT	1.0.0	0.0.0 (0.0.0)	5.0.0	1.0.0	0.0.0	0.0.0	2.0.0	3.0.0
		EDINBURGH	4.0.0	0.0.0 (0.0.0)	5.0.0	1.0.0	0.0.0	0.0.0	2.0.0	6.0.0
		FRANKFURT	3.5.0	2.2.0 (0.0.0)	0.0.0	2.1.0	0.0.0	0.0.0	0.0.0	3.6.0
		GIVSKUD	1.4.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0	1.3.0
		HALLE	1.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.4.0
		HANNOVER	5.3.0	3.2.0 (0.0.0)	0.0.0	3.0.0	0.0.0	0.0.0	2.0.0	3.5.0
		HERBERSTEIN	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
		JEREZ-FRONTERA	1.1.0	2.0.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	1.1.0
		KATOWICE	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
		KOLMARDEN	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
		LIBEREC	1.0.0	1.0.0 (0.0.0)	0.2.0	0.0.0	0.0.0	0.0.0	0.0.0	2.2.0
		LODZ	1.2.0	0.1.0 (0.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		MARWELL	2.2.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		MECHELEN	1.3.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	1.0.0	0.4.0
*		MONTPELLIER	1.1.0	1.0.0 (1.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0
		MOSKVA	3.6.0	2.4.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	5.10.0
		MULHOUSE	3.4.0	3.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	5.4.0
		MUNCHEN	3.7.0	0.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	1.7.0
		OBTERRE	4.5.0	1.2.0 (0.0.0)	1.0.0	2.1.0	0.0.0	0.0.0	2.1.0	2.5.0
		OLOMOUC	1.2.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		OPOLE	2.4.0	1.2.0 (0.1.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.0.0	3.3.0
		OVERLOON	1.3.0	1.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.5.0
		PARIS-JARDIN	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
*		PLZEN	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
		POZNAN	1.0.0	0.0.0 (0.0.0)	0.1.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		ROSEGG_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
		ROTTERDAM	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
		STUTTGART	1.3.0	0.1.0 (0.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.0.0	1.2.0
		SZEGED	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
*		TWYCROSS	1.2.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
		WARSZAWA	1.3.0	1.1.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	0.0.0	2.3.0
		WIEN-ZOO	1.0.0	0.0.0 (0.0.0)	0.0.0	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		ZLIN	2.2.0	1.3.0 (0.0.0)	0.0.0	1.2.0	0.0.0	0.0.0	0.0.0	2.3.0
		ZURICH	0.3.0	1.2.0 (1.1.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.2.0	1.2.0
		Total (47)	73.102.0	28.32.0 (5.5.0)	26.10.0	26.10.0	0.0.0	0.0.0	17.8.0	79.121.0



Vicuña

EEP Annual Report 2007 - 2008



Summary

Further holders of Vicuna:

- Management of Nature Conservation in Abu Zaby hold 3,2 Vicunas on 31.12.08;
- Zoological Garden of Bydgoszcz hold 1,0 Vicuna on 31.12.08.

The population is increasing and new holders would therefore be welcome to join the programme.



European bison

EEP Annual Report 2007 - 2008



1. Programme information

European bison

Bison bonasus

EEP established in 1995.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Target population size A= 1600 and B= 1300

Additional comments

The possibility of saving such a high percentage of gene diversity exists only when considering the entire captive population. Two lines, Lowland and Lowland-Caucasian, must be kept separately. The EEP population is managed as part of the IUCN global conservation program for European bison. The target population is a little larger than the actual population (1300) and the proportion between lines is skewed towards Lowland-Caucasian. New Lowland populations are created (Hungary, Netherland, Germany) so the proportion between the two lines will change in the future.

2. Programme personnel

Species Coordinator

Wanda Olech-Piasecka (Warsaw-uni_NE)

Species Committee members

Mats Höggren (Kolmarden)

Erlend Wadsten (Stockholm-zoo)

Wojciech Bielecki (Warsaw-uni_NE)

Nick Lindsay (Whipsnade)

Veterinary advisor

Wojciech Bielecki (Warsaw-uni_NE)

Research advisor

Zuza Nowak (Warsaw-uni_NE)

3. Activities

Species Committee

Last election: 2004

Last meeting: 4 October 2006 Madrid-zoo

Conservation activities

Reintroduction and restocking in Carpathians - Neamt Natural Park and Vama Buzalau in Romania, Topolcianky and Poloniny Park in Slovakia, Beskyd Skolyvsky in Ukraine and Bieszczady in Poland. It is possible to send large groups of animals to these reintroduction sites. In Hungary two new breeding centers were established and another two will be created very soon. Those breeding centers are built in an area of at least 50 ha each. In Kransavlak (Netherlands) the European bison were moved to form a semi-free herd. In France a new semi-free herd was established. Globally the population of European bison is increasing and reached 4000 animals by the end of 2008. The bad situation in Ukraine has shifted and 2009 was announced as the European bison year in this country. In the previous year (2008) European bison was chosen as the animal of the year species in Germany. The conservation program is developing.

Research activities

In 2007 an international conference was organised in Goluchow (Poland) and in Springe (Germany). In 2008 conferences took place in Cisna (Poland), Hardehausen (Germany), Topolcianky (Slovakia). During the conference many topics were presented and discussed. Abstracts were published, as well as scientific papers. In 2008 the first issue of the European Bison Conservation Bulletin was released. In the Bulletin it is possible to find scientific and popular papers (www.smz.waw.pl).

4. Publications

Studbook

Recent edition: 1999

Next edition: 2009

Husbandry guidelines

Not yet published.



European bison EEP Annual Report 2007 - 2008



POZNAN	2.3.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.1.0	0.0.0	2.2.0
PRAHA	1.5.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	1.5.0
ROCAMADOUR	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
ROSTOCK	2.3.0	4.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.0.0	2.0.0	3.3.0
SANTILLANA	2.1.0	0.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0
SPRINGE_NE	13.15.0	4.2.0 (0.0.0)	0.0.0	0.0.0	1.0.0	0.0.0	6.5.0	12.12.0
STOCKHOLM-ZOO	1.4.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.3.0	1.2.0
STRALSUND_NE	1.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.1.0	0.0.0	0.0.0	1.1.0
STRAUBING	1.2.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.2.0
STUTTGART	2.3.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.2.0	1.1.0	2.1.0
TALLINN	4.6.0	2.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	5.6.0
THOIRY	3.4.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	3.5.0
WARSZAWA	3.4.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.2.0	2.0.0	1.3.0
WHIPSNADÉ	1.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
WIEN-ZOO	1.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	1.4.0
WINTERTHUR_NE	2.5.0	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	2.5.0
WROCLAW	2.2.0	0.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	1.0.0	0.1.0	1.3.0
ZAGREB	2.6.0	0.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.3.0	1.0.0	1.4.0
ZURICH	1.6.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.6.0
Total (69)	151.309.0	83.73.6 (0.0.6)	2.8.0	2.8.0	5.6.0	23.29.0	59.66.0	156.289.0

Discrepancy notes

European bison
Bison bonasus

BERLIN-TIERPARK	The status on 1 January 2007 is 2.6.0 instead of 3.8.0 as listed on 31 December 2006. Animals were transferred without prior consulting the EEP coordinator.
BERN	The status on 1 January 2007 is 1.6.0 instead of 1.7.0 as listed on 31 December 2006.
CABARCENO	The status on 1 January 2007 is 4.8.0 instead of 3.7.0 as listed on 31 December 2006.
ESTEPONA	The status on 1 January 2007 is 4.5.0 instead of 0.1.0 as listed on 31 December 2006.
KRISTIANSAND	The status on 1 January 2007 is 3.1.0 instead of 0.4.0 as listed on 31 December 2006.
MECHELEN	The status on 1 January 2007 is 4.3.0 instead of 1.1.0 as listed on 31 December 2006.
NURNBERG	The status on 1 January 2007 is 1.4.0 instead of 0.4.0 as listed on 31 December 2006.
ZURICH	The status on 1 January 2007 is 1.6.0 instead of 2.7.0 as listed on 31 December 2006.

Summary

The EEP part of the population did not change much during the years 2007-2008. All together there are 72 zoos participating in the EEP and in the status table you will notice that not all non-EAZA institutions have been added. In total there are 445 animals at the end of 2008 (156 males and 289 females). Two males and 8 females were transferred within EEP zoos, but the main part of transferred animals were in (11 animals) and out of non EAZA zoos (51 animals). The large amount of exported animals shows how many institutions are interested in the species. Many animals went to reintroduction projects or to reserves and newly created breeding centers. New established herds are usually large (ca. 10 animals) kept in sufficient enclosures. Such breeding centers are propagated in the conservation program and transports of animals were partly financed by the European Bison Friends Society. All EEP participants except Berlin TP followed recommendations and cooperated intensively. It is clear there is a difference between lines and need for their separation.

The number of deaths in 2007-2008 was high but this was partly affected by the blue tongue epidemic in Germany. The European bison is not resistant to this disease so it is very important to use all possible prevention methods.



Gaur

EEP Annual Report 2007 - 2008



1. Programme information

Gaur

Bos gaurus

EEP established in 1985.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

3. Activities

Species Committee

Last election: Over 5 years ago.

Last meeting:

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2001

Next edition: 2009

Husbandry guidelines

Not yet published.

5. Status

Status and developments over the year 2007 - 2008

Gaur

Bos gaurus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		BERLIN-ZOO	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
		CABARCENO	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
		MUNCHEN	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
		MUNSTER	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
		PARIS-JARDIN	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
		THOIRY	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
		VERGEL_NE	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
		WHIPSNADE	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 (8)	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

Summary

Berlin Zoo has decided to stop managing the Gaur EEP and the programme has been vacant during most of the reporting period. In 2009 the programme will be taken on by Menagerie du Jardin des Plantes, Paris. An updated status table and full annual report are expected for the 2009 edition of the yearbook. Questions regarding the Gaur EEP can meanwhile be forwarded to Aude Bourgeois at Paris-Jardin: bourgeois@mnhn.fr



Banteng

EEP Annual Report 2007 - 2008



1. Programme information

Banteng

Bos javanicus

EEP established in 1993.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

Species Coordinator

François-Pierre Huyghe (Lisieux)

Species Committee members

Dieter Jarofke (Berlin-zoo)

Roland Brockmann (Dresden)

Clemens Becker (Karlsruhe)

Waltraut Zimmermann (Köln)

Jean-Marie Carenton (Lisieux)

Ilze Raipule (Riga)

Yitzhak Yadid (Roma)

Robert Zingg (Zurich)

3. Activities

Species Committee

Last election: 2008

Last meeting: 13 September 2008 Antwerpen

Conservation activities

Not specified.

Research activities

Not specified.

4. Publications

Studbook

Recent edition: 2007

Next edition: 2010

Husbandry guidelines

Not yet published.



Banteng EEP Annual Report 2007 - 2008



5. Status

Status and developments over the year 2007 - 2008

Banteng
Bos javanicus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		BERLIN-ZOO	1.4.0	0.2.0 (0.1.0)	2.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.5.0
		BEWDLEY	1.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.4.0
		COTTBUS_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
		DRESDEN	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
		FUENGIROLA	2.1.0	0.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.0.0	0.1.0
		HILVARENBEEK	1.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.4.0
		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
		LISIEUX	1.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.5.0
		LYMPNE	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
		MONTPELLIER	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	1.8.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.8.0
		RIGA	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
		ROMA	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
		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
		WROCLAW	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
		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 (16)	19.47.0	0.2.0 (0.1.0)	2.0.0	2.0.0	0.0.0	0.0.0	0.0.0	19.48.0

Summary

Not specified.



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1. Programme information

Dwarf forest buffalo

Syncerus caffer nanus

ESB established in 2003.

Goal(s)

Percentage of gene diversity 90% saved in 100 years.

2. Programme personnel

European Studbook Keeper

David Brunger (Chester)

3. Publications

Studbook

Recent edition: 2008

Next edition: 2010

Husbandry guidelines

Not yet published.

4. Status

Status and developments over the year 2007 - 2008

Dwarf forest buffalo
Syncerus caffer nanus

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		BERLIN-TIERPARK	2.7.0	3.3.0 (1.0.0)	1.1.0	0.2.0	0.0.0	2.2.0	0.0.0	3.7.0
		BERLIN-ZOO	2.3.0	0.3.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.5.0
*		BUDAPEST	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
		CHESTER	1.3.0	0.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.5.0
		DRESDEN	2.3.0	0.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	0.0.0	1.3.0
		DVUR-KRALOVE	4.3.0	3.3.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	3.1.0	3.5.0
		ESTEPONA	2.2.0	0.0.0 (0.0.0)	0.0.0	0.1.0	0.0.0	0.0.0	1.0.0	1.1.0
		HILVARENBEEK	1.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.5.0
		KESSINGLAND	1.2.0	0.0.0 (0.0.0)	0.3.0	0.0.0	0.0.0	0.0.0	0.1.0	1.4.0
		LISBOA-ZOO	4.5.0	1.1.0 (0.0.0)	0.0.0	1.1.0	0.0.0	0.0.0	2.1.0	2.4.0
		LISIEUX	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
		MADRID-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
		MAGDEBURG	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
		MARWELL	1.8.0	2.1.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.9.0
		PRESCOT	1.5.0	3.1.0 (1.1.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	2.5.0
		SIGEAN	6.13.0	5.2.0 (1.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0	8.12.0
*		VALENCIA-PARC	0.0.0	0.0.0 (0.0.0)	1.4.0	0.0.0	0.0.0	0.0.0	0.0.0	1.4.0
		WOBURN	3.3.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	3.3.0
		ZAGREB	2.2.0	0.0.0 (0.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.0.0	2.0.0
		Total (19)	35.70.0	18.17.0 (5.1.0)	3.10.0	3.8.0	0.0.0	2.2.0	10.6.0	36.80.0
*	*	Non-EAZA Institutions (5)	10.10.0	4.1.0 (0.0.0)	0.0.0	0.2.0	4.3.0	2.1.0	0.0.0	16.11.0

Summary

2007 Update

No replies were received from the following collections: Estepona, Madrid-Zoo and Skopje (non EAZA member). On 12/10/04 1.1 buffalo were



Dwarf forest buffalo

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transferred from Zagreb to Skopje. Since their transfer, no replies have been received from Skopje, therefore all buffalo at Skopje have been listed as "Lost to Follow Up".

The population has remained stable in 2007 totalling 131 (46.85.0) buffalo. During the year a total of 21 births (10.10.1) occurred at 11 institutions. 13 deaths (7.5.1) occurred during the year. Several transfers to place during the year:

- 1.4 buffaloes were transferred from Berlin Tierpark out of the population to W. Bode;
- 1.1 buffaloes were transferred from Lisbon Zoo to Bioparc Valencia;
- 1.1 buffaloes were transferred from Vergel (Spain) to Terra Natura de Murcia

Bioparc Valencia and Terra Natura de Murcia are new holders.

There are still problems of outplacing surplus stock, especially males from the population.

Two zoos currently maintain non-breeding herds as their bulls are neutered (Kessingland and Hilvarenbeek).

During 2006 and 2007 work was carried out on the studbook data in an attempt to improve the accuracy of pedigree data as only 20% of the living animals pedigrees could be traced to founders. Unfortunately, little improvement has occurred, and only 31% of the pedigrees of living animals are now able to be traced. It has not been possible to accurately trace pedigrees of many animals as large numbers were transferred or procured from dealers, resulting in pedigree data being lost. This therefore creates a situation at present where there is not enough accurate data to do reasonable genetic management without working up some hypothetical scenarios.

Although the programme is at ESB level, measures should be made taken to cease transferring siblings as breeding pairs (three instances in the last three years). Unfortunately, animals in the pairs created at Bioparc Valencia and Terra Natura de Murcia are directly related (same sire). Degradation of genetic diversity within the population will occur if they are allowed to reproduce in their current pairings.

Understandably, constraints such transportation restrictions, costs and the need to outplace surplus stock tend to result in the transfer of siblings as pairs. Efforts should be made to not send siblings as pairs in the future. Continuing to do so will reduce genetic variation in the population further and affect the long term management of the species in the region.

2008 Update

The population has increased slightly (10) towards 141 (49.91.10) animals. During the last year a total of 21 births (8.9.1) occurred at 10 institutions. Six deaths (4.2.0) occurred during the year and 3.4 buffaloes were transferred throughout the region in the year.

Budapest has commenced maintaining the species as 0.2 females (SB# 263 & 431) were transferred from Zagreb and a male transferred from Dresden (SB# 419). Zagreb is due to go out of the species once the males SB#252 & 387 have been outplaced.

Berlin Zoo transferred 1.1 (SB# 422 & 455) to Berlin Tierpark but these animals are currently being maintained separate from their main herd.

Four zoos currently maintain non-breeding herds as their bulls are neutered (Kessingland, Lisieux, Hilvarenbeek and Woburn). Previously Marwell has kept their bull SB#304 separate from the females due to the problems outplacing surplus animals, but have produced calves following their bull now being given access to the females.