

# **European regional Black Rhinoceros Studbook 2009**

## **DICEROS BICORNIS**

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# Black Rhino EEP Report 2009

## Species Committee

During 2009 Andreas Knieriem left Hannover Zoo we wish him every success in Munich. Also since May 2010 staff from Dvur Kralove are not permitted to participate on species committees and so Jiri Hruby has also had to step down from this committee. I hope that the situation at Dvur Kralove is resolved as soon as possible so that we can welcome Jiri back. The usual situation when a species committee member leaves their collection is to appoint the person with next highest number of votes to the committee. In our case however, we only had the required number of committee members who wished to join the committee and so I suggest that we continue with two members short until next year when we are due to have a new election process. This leaves the current species committee as:

Andreas Ochs	Berlin Zoo
Adrian Harland	Howletts / Port Lympne
Robert Zingg	Zurich
Mati Kaal	Tallin Zoo
Gerd Nötzold	Leipzig
Xavier Vaillant	Pont-Scorff
Mark Pilgrim	Chester

## Changes to EEP population in 2009

### **Births**

There were four births, all female during the year;

‘*Bashira*’ at Chester (dam *Ema Elsa* sire *Mgardi*) on the 15<sup>th</sup> May.

‘*Eva*’ at Dvur Kralove (dam *Elba* sire *Baringo II*) on the 08<sup>th</sup> December.

‘*Jasmina*’ also at Dvur Kralove (dam *Jessi* sire *Baringo II*) on the 13<sup>th</sup> December.

‘*Nyota*’ at Port Lympne (dam *Vuyu* sire *Kingo*) on the 25<sup>th</sup> December.

### **Deaths**

Two death occurred during 2009, the old (39 yrs) female ‘*Jimmi*’ and female ‘*Jiddah*’ (16 yrs) both at Dvur Kralove on the 21<sup>st</sup> August and 25<sup>th</sup> December respectively.

### **Transfers**

Following a record seven transfers in 2008 there were no transfers between EEP participants during 2009. However 2.1 (*Jamie*, *Jabu* and *Deborah*) black rhino were transferred out of the EEP population from Dvur Kralove to the Mkomazi Game reserve in Tanzania.

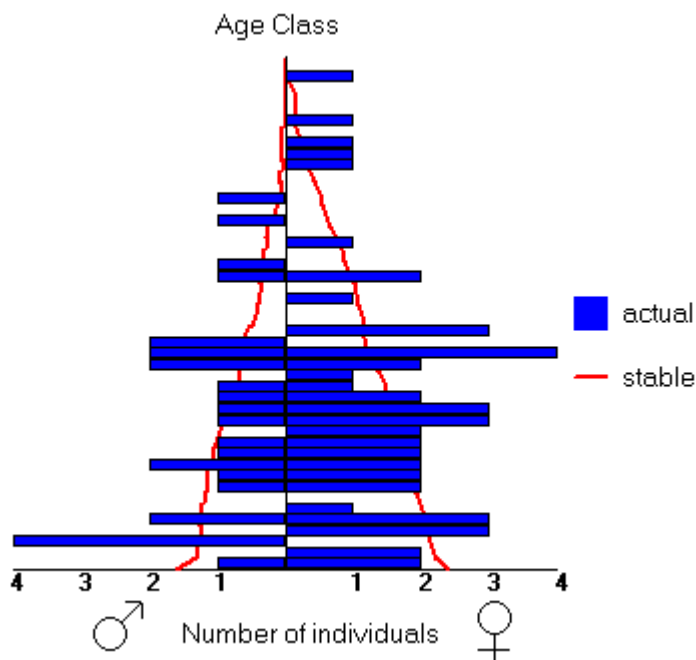
### **Population size**

At 31<sup>st</sup> December 2009 there were 27.51 Black rhinos in the EEP. 26.50 are *Diceros bicornis michaeli* and 1.1 at Frankfurt are *Diceros bicornis minor*.

## Development of the Black rhino population during 2009

PARTICIPANTS	1 <sup>st</sup> Jan	Births	TRANSFERS BETWEEN EAZA ZOOS		TRANSFERS WITH NON-EAZA ZOOS		DEATHS	31 <sup>st</sup> Dec	COMMENTS
			IN	OUT	IN	OUT			
BEKESBOURNE	1.2							1.2	
BERLIN ZOO	2.6							2.6	
CHESTER	3.5	0.1						3.6	Birth of <i>Bashira</i>
DVUR KRALOVE	8.9	0.2				2.1	0.2	6.8	Births of <i>Eva</i> and <i>Jasmina</i> Transfer out of <i>Jabu</i> , <i>Jamie</i> and <i>Deborah</i> .
FONTAINE	2.2							2.2	
FRANKFURT	1.1							1.1	<i>DICEROS B. MINOR</i>
HANNOVER	1.2							1.2	
KOLN	1.0							1.0	
KREFELD	2.1							2.1	
LEIPZIG	1.2							1.2	
LYMPNE	4.11	0.1						4.12	Birth of <i>Nyota</i>
MAGDEBURG	1.3							1.3	
PAIGNTON	0.2							0.2	
PONTSORF	1.1							1.1	
TALLIN	1.0							1.0	
ZURICH	0.2							0.2	
<b>TOTAL</b>	<b>29.49</b>	<b>0.4</b>				<b>2.1</b>	<b>0.2</b>	<b>27.50</b>	

## Age structure of the population



## Population ordered by Mean kinship value

Studbook #	Sex	Sire	Dam	Age	Location	MK	# Offspring	House name
653	M	WILD	WILD	18	MAGDEBURG	0.0089	2	Madiba
558	F	WILD	WILD	19	LYMPNE	0.0107	3	Vuyu
750	M	346	183	10	CHESTER	0.0107	1	Sammy
153	F	WILD	WILD	44	MAGDEBURG	0.0143	2	Kenia
240	F	WILD	WILD	37	BERLINZOO	0.0152	3	Mzima
384	F	18	19	21	CHESTER	0.0165	0	Rosie
453	M	18	19	20	FONTAINE	0.0165	0	Katakata
220	F	WILD	WILD	36	BERLINZOO	0.0188	3	Kilaguni
349	M	171	150	26	HANNOVER	0.0192	2	Kifaru II
610	M	9	240	14	LEIPZIG	0.0201	0	Ndugu
428	F	166	298	19	PAIGNTON	0.0205	1	Sita
947	F	653	295	5	CHESTER	0.0210	0	Malindi
886	F	653	295	8	BERLINZOO	0.0228	1	Maburi
532	F	347	220	16	FONTAINE	0.0232	0	Tisa
714	M	534	194	11	CHESTER	0.0232	1	Magadi
436	F	166	220	19	HANNOVER	0.0237	1	Sabah
437	F	166	240	19	KREFELD	0.0237	2	Nane
342	F	142	194	26	LYMPNE	0.0241	2	Arusha
454	F	252	150	18	PONTSCORF	0.0246	0	Siwa
662	F	252	150	14	ZURICH	0.0246	0	Wanda
696	F	430	312	12	CHESTER	0.0248	0	Manyara
663	F	318	195	13	LYMPNE	0.0250	1	Ruaha
955	M	750	680	2	CHESTER	0.0252	0	Asani
295	F	9	153	29	MAGDEBURG	0.0259	3	Mana
890	M	341	558	9	BEKESBRNE	0.0263	0	Vungu
968	F	341	558	0	LYMPNE	0.0263	0	Nyota
754	F	534	342	11	BEKESBRNE	0.0272	0	Rufiji
366	F	219	220	24	BERLINZOO	0.0277	3	Ine
950	F	302	558	4	LYMPNE	0.0287	0	Damara
546	F	347	366	15	BERLINZOO	0.0295	1	Kumi
195	F	WILD	WILD	40	LYMPNE	0.0304	5	Rukwa
408	F	18	195	21	LYMPNE	0.0304	2	N'akuru
659	M	534	408	13	DVURKRALV	0.0304	0	Mweru
888	F	534	195	9	LYMPNE	0.0304	0	Solio
903	M	534	408	7	LYMPNE	0.0304	0	Zambezi II
528	M	252	217	16	KREFELD	0.0308	2	Usoni
927	M	528	437	2	KREFELD	0.0308	0	Thabo
483	M	142	195	18	DVURKRALV	0.0313	1	Baringo II
883	F	341	428	3	PAIGNTON	0.0313	0	Zuri
430	M	252	217	20	LYMPNE	0.0317	2	Quinto
680	F	430	422	13	CHESTER	0.0330	1	Kitani
892	M	534	456	8	LYMPNE	0.0334	0	Manyara
341	M	142	195	27	LYMPNE	0.0348	3	Kingo
951	M	302	663	4	LYMPNE	0.0358	0	Monduli
456	F	283	178	17	LYMPNE	0.0364	1	Jaga
619	F	260	431	14	DVURKRALV	0.0373	3	Elba
967	F	483	619	1	DVURKRALV	0.0378	0	Eva
559	F	386	295	14	MAGDEBURG	0.0384	0	Maleika
533	M	349	417	15	KOLN	0.0388	0	Taco
861	F	349	417	9	ZURICH	0.0388	0	Samira
956	F	714	898	1	CHESTER	0.0414	0	Bashira
455	F	283	244	18	LYMPNE	0.0424	1	Etna
880	F	302	455	3	LYMPNE	0.0445	0	Grumeti
762	F	283	282	10	BEKESBRNE	0.0446	0	Salome
911	F	391	342	7	LYMPNE	0.0452	0	Nyasa
685	F	277	387	13	DVURKRALV	0.0483	0	Jola
878	F	283	619	4	DVURKRALV	0.0506	0	Etosha
969	M	450	886	0	BERLINZOO	0.0508	0	Kigoma
767	F	450	436	10	LEIPZIG	0.0512	0	Sarafine
417	F	268	282	21	HANNOVER	0.0513	2	Sany
898	F	283	619	8	CHESTER	0.0523	1	Ema Elsa
910	F	450	366	7	FONTAINE	0.0532	0	Binti
928	M	450	366	2	BERLINZOO	0.0532	0	Kito
879	F	450	546	3	LYMPNE	0.0539	0	Zawadi
876	F	268	678	4	DVURKRALV	0.0565	0	Maischa
283	M	172	175	31	DVURKRALV	0.0567	9	Jim
926	M	283	540	2	DVURKRALV	0.0570	0	Dzanti
438	M	386	387	19	PONTSCORF	0.0599	0	Jakob
743	F	450	481	11	LEIPZIG	0.0608	0	Nandi
689	F	268	175	12	DVURKRALV	0.0609	0	Jane Lee
268	M	247	180	33	DVURKRALV	0.0630	8	Bubba Isis
857	M	283	387	9	ZURICH	0.0664	0	Jeremy

387	F	268	175	26	DVURKRALV	0.0690	4	Jessi
450	M	268	175	19	BERLINZOO	0.0717	6	Jasper

## Population statistics

Founders = 41

Potential Founders = 0 additional

Living Descendants = 70.00

Percent Known = 100.0

GD = 0.9627

Potential GD = 0.9797

GV = 0.9625

fge = 13.42

Potential fge = 24.68

Founder Genomes Surviving = 21.66

Potential Founder Genomes Surviving = 24.68

Mean F = 0.0089

**BLACK RHINOCEROS Studbook**

Restricted to: (Diceros bicornis)

Locations: EUROPE /

Dates: Between 01/01/2009 and 31/12/2009

Status: Living during 1 Jan 2009 -&gt; 31 Dec 2009

Report ordered by: current/last location (alphabetic)

Stud #	Sex	Birth Date	Sire	Dam	Location	Date	Local ID	Event	Name	Taxa	Inbr_coef
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**BEKESBRNE - Howletts Zoo Park, Hythe, Kent, England (U.K.)**

754	F	21 Jun 1999	534	342	LYMPNE BEKESBRNE	21 Jun 1999 18 Oct 2004	P99052 H20447	Birth Transfer	RUFIJI	michaeli	0.0000
762	F	25 Jan 2000	283	282	DVURKRALV LYMPNE BEKESBRNE	25 Jan 2000 27 Nov 2001 18 Oct 2004	058040 P21047 H20448	Birth Transfer Transfer	SALOME	michaeli	0.0000
890	M	8 Nov 2001	341	558	LYMPNE BEKESBRNE	8 Nov 2001 14 Oct 2004	P21034 H20444	Birth Transfer	VUNGU	michaeli	0.0000

**Totals: 1.2.0 (3)****BERLINZOO - Zoologischer Garten Berlin, D-10787 Berlin, Germany**

220	F	~ 1974	WILD	WILD	TANA RIV DEMME DE GARDA BERLINZOO	~ 1974 28 Nov 1974 1 Dec 1974 19 Oct 1975 19 Oct 1975	NONE _____ _____ 0053 750016	Capture Transfer Transfer Transfer	KILAGUNI	michaeli	0.0000
240	F	~ 1973	WILD	WILD	TANA RIV DEMME DE GARDA BERLINZOO	~ 1973 28 Mar 1975 1 Jun 1975 6 May 1977	NONE _____ _____ 770025	Capture Transfer Transfer Transfer	MZIMA	michaeli	0.0000
366	F	6 Oct 1986	219	220	BERLINZOO	6 Oct 1986 6 Oct 1986	0087 860038	Birth Transfer	INE	michaeli	0.0000
450	M	13 Sep 1991	268	175	DVURKRALV LEIPZIG BERLINZOO	13 Sep 1991 6 Oct 1993 5 Nov 1999	058025 M01312 990324	Birth Transfer Loan to	JASPER	michaeli	0.0000
546	F	14 Jun 1995	347	366	BERLINZOO	14 Jun 1995	950206	Birth	KUMI	michaeli	0.1250
879	F	20 Dec 2006	450	546	BERLINZOO LYMPNE	20 Dec 2006 9 Mar 2010	_____ UNK	Birth Transfer	ZAWADI	michaeli	0.0000
886	F	3 Aug 2002	653	295	MAGDEBURG BERLINZOO	3 Aug 2002 7 Jul 2004	400008 B317-A	Birth Transfer	MABURI	michaeli	0.0000
928	M	3 Apr 2008	450	366	BERLINZOO	3 Apr 2008	_____	Birth	KITO	michaeli	0.0000

**Totals: 2.6.0 (8)****CHESTER - North of England Zool Society, Upton-by-Chester, England (U.K.)**

384	F	24 Nov 1988	18	19	LONDON RP CHESTER	24 Nov 1988 A797 10 Aug 1999 M00116	Birth Transfer	ROSIE	michaeli	0.0000
680	F	16 Jun 1997	430	422	CHESTER FRANKFURT	16 Jun 1997 28489 16 Jun 1997 38492	Birth Ownership	KITANI	michaeli	0.1250
696	F	15 Aug 1998	430	312	CHESTER	15 Aug 1998 26055	Birth	MANYARA	michaeli	0.0000
714	M	9 Feb 1999	534	194	LYMPNE CHESTER	9 Feb 1999 P99015 24 May 2005 C05265	Birth Loan to	MAGADI	michaeli	0.0000
750	M	11 Nov 1999	346	183	OSAKA CHESTER	11 Nov 1999 401 10 Apr 2002 CZ54	Birth Loan to	SAMMY	michaeli	0.0000
898	F	2 Nov 2002	283	619	DVURKRALV CHESTER	2 Nov 2002 058044 13 Apr 2005 C0593	Birth Loan to	EMA ELSA	michaeli	0.0000
947	F	3 Nov 2005	653	295	MAGDEBURG CHESTER	3 Nov 2005 400009 25 Sep 2008 CO8583	Birth Transfer	MALINDI	michaeli	0.0000
955	M	29 Oct 2008	750	680	CHESTER	29 Oct 2008 C08640	Birth	ASANI	michaeli	0.0000
956	F	15 May 2009	714	898	CHESTER	15 May 2009 C09219	Birth	BASHIRA	michaeli	0.0000

**Totals: 3.6.0 (9)**

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**DVURKRALV - Zool Garden Dvur Kralove, 544 01 Dvur Kralove, Czech Republic**

175	F	~ 1970	WILD	WILD	TSAVO NP DVURKRALV	~ 1970 NONE 22 Aug 1971 058008 21 Aug 2009	Capture Transfer Death [Death by: Unknown means]	JIMMI	michaeli	0.0000
268	M	3 Nov 1977	247	180	CINCINNAT ZEEHANDLR L RUHE DVURKRALV	3 Nov 1977 M14010 13 Nov 1978 _____ 15 Nov 1978 _____ 17 Nov 1978 058016	Birth Transfer Transfer Transfer	ISIS	michaeli	0.0000
283	M	18 Mar 1979	172	175	DVURKRALV ZURICH DVURKRALV	18 Mar 1979 058017 22 Aug 2007 A70442 17 May 2008 05817	Birth Loan to Loan to	JIMM	michaeli	0.0000
387	F	8 Dec 1984	268	175	DVURKRALV	8 Dec 1984 058019	Birth	JESSI	michaeli	0.0000
483	M	3 Dec 1992	142	195	LYMPNE CHESTER LYMPNE DVURKRALV	3 Dec 1992 P92105 23 Oct 2002 CZ641 25 May 2005 P92105 5 Jun 2008 _____	Birth Loan to Transfer Loan to	BARINGO II	michaeli	0.0000
540	F	15 Nov 1994	277	387	DVURKRALV	15 Nov 1994 058033 25 Dec 2009	Birth Death [Death by: Unknown means]	JIDDAH	michaeli	0.0000
619	F	5 Sep 1996	260	431	DVURKRALV	5 Sep 1996 058036	Birth	ELBA	michaeli	0.0000
659	M	12 Sep 1996	534	408	LYMPNE DVURKRALV	12 Sep 1996 P96037 29 Nov 2001 058042	Birth Transfer	MWERU	michaeli	0.0000
685	F	25 Oct 1997	277	387	DVURKRALV	25 Oct 1997 058038	Birth	JOLA	michaeli	0.0000

689	F	24 Jan 1998	268	175	DVURKRALV	24 Jan 1998 058039	Birth	JANE LEE	michaeli	0.0000
876	F	21 Dec 2005	268	678	DVURKRALV	21 Dec 2005 058046	Birth	MAISCHA	michaeli	0.0000
877	M	19 Feb 2006	528	437	KREFELD DVURKRALV ~ 3 Apr 2008 _____	19 Feb 2006 1687	Birth Transfer	DAVU	michaeli	0.0000
878	F	4 Sep 2006	283	619	DVURKRALV	4 Sep 2006 058048	Birth	ETOSHA	michaeli	0.0625
926	M	24 Nov 2007	283	540	DVURKRALV	24 Nov 2007 058051	Birth	DZANTI	michaeli	0.0625
967	F	8 Dec 2009	483	619	DVURKRALV	8 Dec 2009 UNK	Birth	EVA	michaeli	0.0000
970	F	13 Dec 2009	483		DVURKRALV	13 Dec 2009 UNK	Birth	JASMINA	michaeli	0.0000

**Totals: 6.9.0 (15)**

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**FONTAINE - Zoo De Doue, 49700 Doue La Fontain, France**

453	M	18 Oct 1990	18	19	LYMPNE LONDON RP WHIPSHADE CHESTER FONTAINE	18 Oct 1990 P90002 18 Oct 1990 A1259 22 Oct 1993 L2166 22 Jul 1998 26044 9 Jun 2005 2DB90	Birth Ownership Transfer Loan to Transfer	KATAKATA	michaeli	0.0000
532	F	20 May 1994	347	220	BERLINZOO KOLN FONTAINE	20 May 1994 940061 2 Jun 1997 2250 4 Aug 2008 _____	Birth Loan to Loan to	TISA	michaeli	0.0000
857	M	21 Dec 2000	283	387	DVURKRALV CHESTER FONTAINE ZURICH	21 Dec 2000 058041 13 Apr 2005 C0594 9 Jun 2005 1DB00 12 Jan 2010 UNK	Birth Loan to Loan to Transfer	JEREMY	michaeli	0.1250
910	F	2 Nov 2003	450	366	BERLINZOO FONTAINE	2 Nov 2003 M21482 11 May 2006 3DB03	Birth Loan to	BINTI	michaeli	0.0000

**Totals: 2.2.0 (4)**

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**FRANKFURT - Frankfurt Zoo, D-60316 Frankfurt Am, Germany**

393	F	~ 1986	WILD	WILD	MANAPOOL RHODES WD FRANKFURT	~ 1986 NONE 10 Jan 1989 _____ 17 Jul 1989 22109	Capture Transfer Transfer	TSORORO	minor	0.0000
394	M	~ 1986	WILD	WILD	ZIMBABWE RHODES WD FRANKFURT	~ 1986 NONE 10 Jan 1989 _____ 17 Jul 1989 22108	Capture Transfer Transfer	KALUSHO	minor	0.0000

**Totals: 1.1.0 (2)**

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**HANNOVER - Zoo Hannover GmbH, D-30175 Hannover, Germany**

349	M	21 Oct 1984	171	150	ZURICH FRANKFURT HANNOVER	21 Oct 1984 840011 27 Jul 1987 399 27 Sep 1991 IV207	Birth Loan to Loan to	KIFARU II	michaeli	0.0000
417	F	1 Oct 1989	268	282	DVURKRALV	1 Oct 1989 058022	Birth	SANY	michaeli	0.0000



					HANNOVER	4 Sep 1991	IV206		Transfer				
436	F	7 Feb 1991	166	220	BERLINZOO	7 Feb 1991	910034		Birth	SABAH	michaeli	0.0000	
						7 Feb 1991	M00447		Loan to				
					LEIPZIG	23 Sep 1993	M00447		Transfer				
					HANNOVER	14 Oct 2003	IV311		Loan to				

**Totals: 1.2.0 (3)**

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**KOLN - Koln Zoo, D-50735 Koln, Germany**

533	M	6 Feb 1995	349	417	HANNOVER	6 Feb 1995	IV220		Birth	TACO	michaeli	0.0000	
					ZURICH	6 Feb 1995	950008		Ownership				
					KOLN	10 Jun 1997	2251		Loan to				

**Totals: 1.0.0 (1)**

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**KREFELD - Krefelder Zoo, D-47800 Krefeld, Germany**

437	F	4 Apr 1991	166	240	BERLINZOO	4 Apr 1991	910035		Birth	NANE	michaeli	0.0000	
					DVURKRALV	1 Oct 1993	058034		Loan to				
					KREFELD	26 May 1994	740		Transfer				
528	M	1 Jul 1994	252	217	ZURICH	1 Jul 1994	940006		Birth	USONI	michaeli	0.0000	
					DORTMUND	27 Nov 1996	081004		Loan to				
					KREFELD	30 Oct 2003	1572		Loan to				
927	M	6 May 2008	528	437	KREFELD	6 May 2008	_____		Birth	THABO	michaeli	0.0000	

**Totals: 2.1.0 (3)**

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**LEIPZIG - Zoologischer Garten Leipzig, D-04105 Leipzig, SACHSEN, Germany**

610	M	18 Feb 1996	9	240	BERLINZOO	18 Feb 1996	960019		Birth	NDUGU	michaeli	0.0000	
					LEIPZIG	4 Jul 2001	M03019		Loan to				
						1 Jan 2002	M03019		Transfer				
743	F	7 May 1999	450	481	LEIPZIG	7 May 1999	M02619		Birth	NANDI	michaeli	0.0625	
767	F	10 Jan 2000	450	436	LEIPZIG	10 Jan 2000	M02731		Birth	SARAFINE	michaeli	0.0000	

**Totals: 1.2.0 (3)**

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**LYMPNE - Port Lympne Zoo Park, Hythe, Kent, England (U.K.)**

195	F	~ 1970	WILD	WILD	E.AFRICA	~ 1970	NONE		Capture	RUKWA	michaeli	0.0000	
					DEMME	15 Sep 1971	_____		Transfer				
					BEKESBRNE	20 Oct 1971	H71007		Transfer				
					LYMPNE	26 Jan 1973	P73003		Transfer				
341	M	2 Oct 1983	142	195	LYMPNE	2 Oct 1983	P83001		Birth	KINGO	michaeli	0.0000	
					CHESTER	21 Jul 1995	25165		Loan to				
					LYMPNE	9 Jul 1996	P83001		Transfer				
					PAIGNTON	16 Jan 2003	4937		Loan to				
					LYMPNE	8 May 2008	P83001		Transfer				
342	F	11 Nov 1983	142	194	LYMPNE	11 Nov 1983	P83002		Birth	ARUSHA	michaeli	0.0000	

408	F	30 Oct 1989	18	195	LYMPNE	30 Oct 1989 P89001	Birth	N'AKURU	michaeli	0.0000
430	M	21 Sep 1990	252	217	ZURICH CHESTER WHIPNADE CHESTER LYMPNE	21 Sep 1990 900015 13 Nov 1992 24609 22 Jul 1998 L3149 18 Nov 2005 24609 11 Sep 2008 _____	Birth Loan to Loan to Loan to Transfer	QUINTO	michaeli	0.0000
455	F	8 Dec 1992	283	244	DVURKRALV LYMPNE	8 Dec 1992 058027 16 Nov 1995 P95047	Birth Transfer	ETNA	michaeli	0.0000
456	F	14 Dec 1992	283	178	DVURKRALV LYMPNE	14 Dec 1992 058028 13 Nov 1999 P99090	Birth Transfer	JAGA	michaeli	0.0000
558	F	~ 1991	WILD	WILD	ADDO NP NZIP-WASH LYMPNE	~ 1991 NONE 2 May 1995 _____ 6 Aug 1995 P95039	Capture Transfer Loan to	VUYU	michaeli	0.0000
663	F	21 Dec 1996	318	195	LYMPNE	21 Dec 1996 P96046	Birth	RUAHA	michaeli	0.0000
880	F	3 Jan 2007	302	455	LYMPNE	3 Jan 2007 P20700	Birth	GRUMETI	michaeli	0.0000
888	F	30 Jul 2001	534	195	LYMPNE	30 Jul 2001 P21025	Birth	SOLIO	michaeli	0.0000
892	M	18 Sep 2002	534	456	LYMPNE	18 Sep 2002 P22032	Birth	MANYARA	michaeli	0.0000
903	M	31 Dec 2002	534	408	LYMPNE	31 Dec 2002 P22060	Birth	ZAMBEZI II	michaeli	0.0000
911	F	16 Sep 2003	391	342	LYMPNE	16 Sep 2003 P20331	Birth	NYASA	michaeli	0.0000
950	F	18 Dec 2005	302	558	LYMPNE	18 Dec 2005 P20578	Birth	DAMARA	michaeli	0.0000
951	M	7 Jan 2006	302	663	LYMPNE	7 Jan 2006 P20600	Birth	MONDULI	michaeli	0.0000
968	F	25 Dec 2009	341	558	LYMPNE	25 Dec 2009 UNK	Birth	NYOTA	michaeli	0.0000

**Totals: 5.12.0 (17)**

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**MAGDEBURG - Zoologischer Garten Magdeburg, D-39124 Magdeburg, SACHSEN-ANHALT, Germany**

153	F	~ 1966	WILD	WILD	E.AFRICA L RUHE MAGDEBURG	~ 1966 NONE 22 Jun 1970 _____ 30 Aug 1970 400002	Capture Transfer Transfer	KENIA	michaeli	0.0000
295	F	15 Sep 1981	9	153	MAGDEBURG	15 Sep 1981 400004	Birth	MANA	michaeli	0.0000
559	F	23 Dec 1995	386	295	MAGDEBURG	23 Dec 1995 400006	Birth	MALEIKA	michaeli	0.0000
653	M	~ 1992	WILD	WILD	ADDO NP MAGDEBURG	~ 1992 NONE 25 Sep 1996 400007	Capture Transfer	MADIBA	michaeli	0.0000

**Totals: 1.3.0 (4)**

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**PAIGNTON - Paignton Zool & Botanical Garden, Paignton, Devon, England (U.K.)**

428	F	12 Oct 1990	166	298	BERLINZOO PAIGNTON	12 Oct 1990 900044 19 Sep 2002 4741	Birth Loan to	SITA	michaeli	0.0000
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883	F	5 Mar 2007	341	428	PAIGNTON	5 Mar 2007	8052	Birth	ZURI	michaeli	0.0000
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**Totals: 0.2.0 (2)**

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**PONTSCORF - Bretagne Zoo Sarl, 56620 Pont-Scorff, France**

438	M	23 Jun 1991	386	387	DVURKRALV	23 Jun 1991	058024	Birth	JAKOB	michaeli	0.1250
					KREFELD	24 May 1994	739	Transfer			
					PONTSCORF	13 Nov 2002	100324	Loan to			
454	F	15 Mar 1992	252	150	ZURICH	15 Mar 1992	920017	Birth	SIWA	michaeli	0.0000
					FRANKFURT	15 Mar 1992	34393	Ownership			
					DORTMUND	23 Aug 1994	081003	Loan to			
					PONTSCORF	10 Dec 2004	100322	Loan to			

**Totals: 1.1.0 (2)**

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**ZURICH - Zoo Zürich, CH-8044 Zürich, Switzerland**

662	F	3 Jul 1996	252	150	ZURICH	3 Jul 1996	960005	Birth	WANDA	michaeli	0.0000
						3 Jul 1996	24609	Loan to			
861	F	3 Mar 2001	349	417	HANNOVER	3 Mar 2001	IV281	Birth	SAMIRA	michaeli	0.0000
					ZURICH	28 Jun 2004	A10031	Transfer			

**Totals: 0.2.0 (2)**

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**TOTALS: 29.52.0 (81)**  
**14 Institutions**

Compiled by: Mark Pilgrim thru North of England Zool. Society

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Data current thru: 31<sup>st</sup> Dec 2009 European region.



