

**European studbook  
for  
White-handed Gibbon  
(*Hylobates lar*)**



Data compiled by  
David S. Gill and Caroline S. Jellicoe  
South Lakes Wild Animal Park, UK

Data current thru: 31 Dec 2002  
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## White-handed Gibbon (*Hylobates lar*)

### Data Analysis Summary for 2000, 2001 and 2002

#### Births

2000:	7.5.2	(14)
2001:	5.4.8	(17)
2002:	6.1.11	(18)

#### Deaths

2000:	4.7.0	(11)	Average age 17
2001:	6.7.1	(14)	Average age 10
2002:	10.6.3	(19)	Average age 14

#### Population numbers at end of:

2000:	157.156.6	(319)
2001:	156.153.13	(322)
2002:	152.148.21	(321)

White handed gibbon population numbers have been stable for three years, with birth numbers replacing deaths. The current age median shows a very young population, with the majority of animals under 20 years old.

Breeding has occurred as young as 3 years old in females, 2 years old for males. The eldest female to give birth was 34, eldest reproducing male 35. The average for both is 8–9 years old.

99% of offspring born are single babies, with 1% being twins.

Almost 50% of deaths each year are in animals aged 15 and above, whilst only 3 stillbirths have been recorded for the entire three year period.

Birth seasonality is evenly spread throughout the year.

Male and female ratios are also consistently even.

## White-handed Gibbon Studbook

Dates: As of 31/12/2002

Report ordered by: current/last location (alphabetic)

Stud #	Sex	Birth date	Sire	Dam	Location	Date	Local ID	Event
AGRATE - Parco Faunistico La Torbiera, 28010 Agrate Conturbia, Novara, Italy								
407	M	?	Unk	Unk	Neuwied	?	–	Birth
					Hohenstad	?	–	Transfer
					Agrate	20 Dec 1985	81	Transfer
464	F	28 Nov 1986	407	408	Agrate	28 Nov 1986	173	Birth
Totals: 1.1.0 (2)								
742	F	~ Dec 1989	Wild	Wild	Wild	~ Dec 1989	None	Capture
					Riyadh	12 Mar 1990	901611	Transfer
					Al-Faris	5 Jun 1990	–	Transfer
Totals: 0.1.0 (1)								
738	M	~ Oct 1989	Wild	Wild	Wild	~ Oct 1989	None	Capture
					Riyadh	12 Mar 1990	901609	Transfer
					Al-Faris	5 Jun 1990	–	Transfer
Totals: 1.0.0 (1)								
ALMA-ATA - Almaty Zoo, Almaty, Kazakhstan								
608	M	10 May 1994	129	197	Rotterdam	10 May 1994	104910	Birth
					Alma-Ata	3 Oct 2001	Z87002	Transfer
751	F	18 Aug 1996	Unk	Unk	Fukuoka	18 Aug 1996	–	Birth
					Alma-Ata	17 Mar 2001	Z87001	Transfer
Totals: 1.1.0 (2)								
AMIENS - Parc Zoologique d'Amiens, 80000 Amiens, France								
655	M	3 Oct 1996	178	179	Copenhagen	3 Oct 1996	GIB003	Birth
					Amiens	21 Mar 2000	990242	Loan to
679	F	10 Mar 1998	511	Unk	Le Vigen	10 Mar 1998	–	Birth
					Amiens	10 Mar 1998	980004	Transfer
					La Plaine	25 Jun 1998	S98063	Transfer
					Amiens	18 Aug 2000	980004	Transfer
Totals: 1.1.0 (2)								
AMSTERDAM - Artis Zoo, 1000 Hd Amsterdam, The Netherlands								
99	M	~ 1963	Wild	Wild	Unknown	~ 1963	None	Capture
					Emmen	?	–	Transfer
					Amsterdam	25 Oct 1978	M78026	Transfer
100	F	~ 1963	Wild	Wild	Unknown	~ 1963	None	Capture
					Emmen	?	–	Transfer
					Amsterdam	25 Oct 1978	M78027	Transfer
Totals: 1.1.0 (2)								
ASSON - Zoo d'Asson, 64800 Asson, Hautes-Pyrenées, France								
107	M	?	Unk	Unk	Unknown	?	–	Birth
					Holland	?	–	Transfer
					Asson	~ 1963	00751	Transfer
214	F	~ 1972	Wild	Wild	Laos	~ 1974	None	Capture
					Stockholm	9 May 1974	–	Transfer
					Asson	~ 1980	00752	Transfer
389	M	24 May 1983	Unk	Unk	Asson	24 May 1983	–	Birth
398	F	24 Sep 1983	Unk	Unk	Asson	24 Sep 1983	–	Birth
497	M	18 Nov 1988	Unk	Unk	Asson	18 Nov 1988	–	Birth
521	M	25 Nov 1989	Unk	Unk	Asson	25 Nov 1989	–	Birth
827	M	~ 1990	Unk	Unk	Asson	~ 1990	8-1099	Birth
					Pleugueneuc	12 Apr 1996	H.GI.1	Transfer
					Asson	30 Sep 1996	8-1099	Transfer
Totals: 5.2.0 (7)								
AYWAILLE - Monde Sauvage Safari Sprl, B-4920 Aywaille, Belgium								
310	F	~ 1978	Wild	Wild	Unknown	?	None	Capture
					Mulhouse	28 Dec 1980	800040	Transfer
					Fontaine	3 Mar 1992	59HL1	Loan to
					Amersfoort	18 May 1992	M955	Loan to
					Aywaille	19 Oct 1999	990054	Transfer
517	M	26 Oct 1989	189	269	Emmen	26 Oct 1989	503018	Birth

					Amersfoort	29 Sep 1995	M1627	Transfer
					Aywaille	19 Oct 1999	990053	Transfer
620	F	16 Dec 1994	342	395	Planckendael	16 Dec 1994	132009	Birth
					Aywaille	30 May 2001	200131	Loan to
808	F	16 Sep 2002	517	620	Aywaille	16 Sep 2002	020065	Birth
H722	M	1 Jan 1993	Unk	Unk	Jaderberg	1 Jan 1993	–	Birth
					Aywaille	15 Jun 1999	990016	Transfer
Totals: 2.3.0 (5)								
BAYRAMOGLU - Bosphorus Zoo, Darica / Bayramoglu, Darica / Izmit, Turkey								
LX2	M	1 Jan 1980	Unk	Unk	Saarbrücken	1 Jan 1980	–	Birth
					Nordhorn	19 Nov 1982	100009	Transfer
					Bayramoglu	27 Jan 2000	M00628	Transfer
Totals: 1.0.0 (1)								
BEAUVAL - Zoo Parc de Beauval, 41110 St. Aignan, Cher, France								
747	M	11 Aug 1978	Unk	Unk	Tropicarm	11 Aug 1978	–	Birth
					Fontaine	?	–	Transfer
					Beauval	28 Apr 1989	890008	Transfer
748	F	3 Sep 1979	Unk	Unk	Duisburg	3 Sep 1979	155	Birth
					Beauval	5 Oct 1989	890009	Transfer
Totals: 1.1.0 (2)								
BERLIN TP - Tierpark Berlin-Friedrichsfelde GmbH, D-10307 Berlin, Germany								
122	M	~ 1965	Unk	Unk	Hannover	~ 1965	–	Birth
					Berlin TP	18 Sep 1969	M00179	Transfer
756	F	~ 1990	Unk	Unk	Singapore	~ 1990	–	Birth
					Wuppertal	?	81051	Transfer
					Berlin TP	17 Apr 1991	M00180	Loan to
Totals: 1.1.0 (2)								
BERLIN ZOO - Zoologischer Garten Berlin, D-10787 Berlin, Germany								
528	M	~ 1989	Wild	Wild	Unknown	?	None	Capture
					Government	11 Dec 1991	–	Transfer
					Aberde HK	12 Dec 1991	HL9001	Transfer
					Berlin Zoo	25 Jan 1995	950046	Transfer
592	F	27 Jun 1993	Unk	Unk	Private	27 Jun 1993	–	Birth
					Berlin Zoo	4 Mar 1995	950118	Loan to
Totals: 1.1.0 (2)								
BESANÇON - Museum de Besançon, 25000 Besançon, Doubs, France								
4	F	5 Dec 1998	428	502	Besançon	5 Dec 1998	98163	Birth
428	M	?	Wild	Wild	Unknown	?	None	Capture
					Lindecker	?	–	Transfer
					Mulhouse	30 Jul 1986	860041	Transfer
					Besançon	24 Jan 1992	1484	Loan to
502	F	?	Wild	Wild	Unknown	?	None	Capture
					Baume	?	–	Transfer
					Besançon	11 Nov 1991	1466	Loan to
771	M	13 Mar 2002	428	502	Besançon	13 Mar 2002	B02025	Birth
Totals: 2.2.0 (4)								
BLOEMFONTEIN - Bloemfontein Zoo, Bloemfontein 9300, Orange Free St, South Africa								
385	F	9 Feb 1983	129	197	Rotterdam	9 Feb 1983	102440	Birth
					Bloemfontein	11 Dec 1986	–	Transfer
475	M	14 Jun 1987	Wild	Wild	Unknown	?	None	Capture
					Singapore	?	–	Transfer
					Bloemfontein	28 Jul 1995	–	Transfer
646	M	25 May 1996	475	385	Bloemfontein	25 May 1996	–	Birth
Totals: 2.1.0 (3)								
BOCHUM - Tierpark & Fossilium Bochum, Bochum, N Rhine-Westph, Germany								
473	M	24 Apr 1984	236	Unk	Bochum	24 Apr 1984	4	Birth
609	F	13 Jun 1994	223	251	Apeldoorn	13 Jun 1994	1308S	Birth
					Bochum	24 Nov 1998	8	Loan to
702	F	16 Nov 1999	473	609	Bochum	16 Nov 1999	9	Birth
774	?	21 Nov 2001	473	609	Bochum	21 Nov 2001	10	Birth
Totals: 1.2.1 (4)								
BORAS - Boras Djurpark Zoo, 503 13 Boras, Sweden								
532	F	~ 1990	Wild	Wild	Thailand	~ 1990	None	Capture
					Stockholm	25 Apr 1992	–	Transfer
					Boras	26 Jan 1994	AG0012	Loan to
547	M	22 Sep 1990	Unk	Unk	Froson	22 Sep 1990	–	Birth
					Stockholm	15 Jun 1993	–	Transfer

					Boras	26 Jan 1994	AG0013	Transfer
Totals: 1.1.0 (2)								
BURFORD - Cotswold Wildlife Park, Oxford, England (U.K.)								
303	F	1 Mar 1978	142	88	Twycross	1 Mar 1978	H58	Birth
					Burford	30 Mar 1981	1046	Transfer
698	F	30 Jun 1999	L1169	303	Burford	30 Jun 1999	MM331	Birth
778	M	1 Jan 2002	L1169	303	Burford	1 Jan 2002	MM603	Birth
L1169	M	1 Jan 1978	Unk	Unk	Germany	1 Jan 1978	–	Birth
					Woking	~ 1981	–	Transfer
					Burford	17 Dec 1982	1045	Transfer
Totals: 2.2.0 (4)								
CABOSSE - Zoo de Jurques, 14260 Jurques, France								
550	M	13 Dec 1990	361	347	Paignton	13 Dec 1990	806	Birth
					Cabosse	26 Sep 1996	1	Transfer
578	F	2 Nov 1992	361	347	Paignton	2 Nov 1992	965	Birth
					Cabosse	26 Sep 1996	2	Transfer
Totals: 1.1.0 (2)								
CHESSINGTON - Chessington World of Adventures Ltd, Chessington, Surrey, England (U.K.)								
230	F	3 Dec 1973	80	36	London RP	3 Dec 1973	A1474	Birth
					Chessington	10 Sep 1980	47	Loan to
					Tamworth	30 Apr 1997	–	Loan to
					Chessington	30 Jul 1997	47	Transfer
539	M	6 Jun 1990	301	282	London RP	6 Jun 1990	A1174	Birth
					Chessington	24 Oct 1996	1234	Transfer
593	F	3 Aug 1993	268	230	Chessington	3 Aug 1993	766	Birth
717	M	5 Sep 2000	539	593	Chessington	5 Sep 2000	1754	Birth
746	F	?	Unk	Unk	Unknown	?	–	Birth
					Banham	?	–	Transfer
					Chessington	28 Apr 1993	747	Transfer
Totals: 2.3.0 (5)								
COLCHESTER - Colchester Zoo, Stanway Colchester, Essex, England (U.K.)								
362	M	11 Sep 1981	142	88	Twycross	11 Sep 1981	59	Birth
					Colchester	1 Feb 1992	904	Transfer
512	F	23 Aug 1989	219	53	Paignton	23 Aug 1989	633	Birth
					Colchester	23 Nov 1994	1402	Transfer
780	?	14 Dec 2002	362	512	Colchester	14 Dec 2002	BLL161	Birth
Totals: 1.1.1 (3)								
COLWYN BAY - Welsh Mountain Zoo, Colwyn Bay, Clwyd No Wales, United Kingdom								
422	M	15 Nov 1984	192	173	Colwyn Bay	15 Nov 1984	26	Birth
523	F	7 Dec 1989	219	343	Chard	7 Dec 1989	267	Birth
					Colwyn Bay	22 May 1995	1030	Loan to
Totals: 1.1.0 (2)								
COMBE MARTIN - Combe Martin Wildlife Park, Combe Martin, North Devon, England (U.K.)								
644	M	10 Apr 1996	361	347	Paignton	10 Apr 1996	1300	Birth
					Combe Martin	19 Jan 2002	–	Transfer
Totals: 1.0.0 (1)								
COPENHAGEN - Copenhagen Zoo, DK-2000 Frederiksber, Denmark								
8	F	29 Nov 1992	232	233	Eskilstuna	29 Nov 1992	59	Birth
					Copenhagen	15 Aug 1999	GIB004	Transfer
627	M	18 Jun 1995	361	347	Paignton	18 Jun 1995	1248	Birth
					Copenhagen	1 Sep 1999	GIB005	Transfer
786	?	15 May 2002	627	8	Copenhagen	15 May 2002	GIB006	Birth
Totals: 1.1.1 (3)								
COULANGE - Parc Zoologique d'Amneville, 57360 Amneville, Moselle, France								
525	F	14 Dec 1989	261	279	Apeldoorn	14 Dec 1989	876L	Birth
					Bergeijk	27 May 1990	–	Transfer
					Coulange	9 May 1995	HL2	Loan to
554	M	27 Feb 1991	Unk	Unk	Bergeijk	27 Feb 1991	–	Birth
					Coulange	13 Mar 1997	HL4	Loan to
783	M	15 Nov 1999	554	525	Coulange	15 Nov 1999	HL5	Birth
Totals: 2.1.0 (3)								
DORE ZOO - Espace Zoologique La Boissiere Du Dore, 44430 La Boissiere D, France								
558	F	15 Oct 1991	223	251	Apeldoorn	15 Oct 1991	1078S	Birth
					Dore Zoo	20 Mar 1997	–	Loan to
615	F	7 Oct 1994	261	279	Fontaine	7 Oct 1994	59HL9	Birth

758	M	15 Feb 1994	754	755	Dore Zoo	16 Mar 1998	–	Loan to
759	F	1 Jan 1995	Unk	Unk	Dore Zoo	15 Feb 1994	PGI4	Birth
					Fontaine	1 Jan 1995	–	Birth
					Dore Zoo	5 Mar 1998	PGI5	Loan to
Totals: 1.3.0 (4)								
EKATERINBURGSKII - Ekaterinburgskii Zoopark, Ekaterinburg 620055, Russian Fed								
588	M	14 Mar 1993	428	502	Besançon	14 Mar 1993	1523	Birth
					Ekaterinburg.	16 Sep 1999	–	Loan to
Totals: 1.0.0 (1)								
EMMEN - Noorder Dierenpark Zoo, 7811 Ep Emmen, Holland, The Netherlands								
397	M	23 Sep 1983	Unk	Unk	Wassenaar	23 Sep 1983	–	Birth
					Emmen	5 Feb 1986	503011	Transfer
					Apeldoorn	3 Apr 1989	814S	Transfer
					Emmen	21 Jun 1989	503011	Transfer
669	M	13 Jul 1997	397	384	Emmen	13 Jul 1997	503022	Birth
773	F	12 Jan 2001	397	384	Emmen	12 Jan 2001	503024	Birth
Totals: 2.1.0 (3)								
ESKILSTUNA - Parken Zoo I Eskilstuna Ab, S-631 86 Eskilstuna, Sodermanland, Sweden								
232	M	~ 1974	Wild	Wild	Laos	~ Mar 1975	None	Capture
					Eskilstuna	26 Apr 1975	53	Transfer
233	F	~ 1974	Wild	Wild	Laos	~ Mar 1975	None	Capture
					Eskilstuna	26 Apr 1975	54	Transfer
543	F	4 Jul 1990	232	233	Eskilstuna	4 Jul 1990	58	Birth
624	M	6 Mar 1995	232	233	Eskilstuna	6 Mar 1995	60	Birth
664	M	30 Mar 1997	232	233	Eskilstuna	30 Mar 1997	362	Birth
Totals: 3.2.0 (5)								
ESTEPEONA - Parques De La Naturaleza Selwo S L, Estepona, Malaga, Spain								
631	F	1 Aug 1995	402	381	Madrid	1 Aug 1995	GMB7	Birth
					Estepona	12 Nov 1999	1GM1	Loan to
692	M	15 Jan 1999	402	381	Madrid	15 Jan 1999	GMB10	Birth
					Estepona	16 Oct 2000	1GM3	Loan to
800	F	30 Jun 1997	402	381	Madrid	30 Jun 1997	GMB9	Birth
					Estepona	12 Nov 1999	1GM2	Loan to
Totals: 1.2.0 (3)								
616	M	18 Nov 1994	151	311	Gettorf	18 Nov 1994	7	Birth
					Everland	15 Sep 1998	–	Transfer
Totals: 1.0.0 (1)								
EXMOOR - Exmoor Zoological Park, Barnstaple, Devon, England (U.K.)								
343	F	24 Jun 1980	187	188	Stuttgart	24 Jun 1980	3598	Birth
					Chard	5 May 1988	264	Transfer
					Exmoor	27 Nov 1998	696	Loan to
561	F	23 Dec 1991	117	118	Malton	23 Dec 1991	–	Birth
					Exmoor	27 Feb 2001	12	Loan to
565	M	4 Jan 1992	219	343	Chard	4 Jan 1992	268	Birth
					Exmoor	27 Nov 1998	11	Loan to
803	F	9 Jun 1998	Unk	Unk	Chard	9 Jun 1998	MAM032	Birth
					Exmoor	27 Nov 1998	–	Transfer
Totals: 1.3.0 (4)								
FONTAINE - Zoo de Doué, 49700 Doué-la-Fontaine, France								
101	M	~ 1963	Wild	Wild	Unknown Dealer	~ 1963	None	Capture
					Fontaine	?	–	Transfer
					Fontaine	1 Jan 1964	59HL5	Transfer
279	F	~ 1976	Wild	Wild	Bergeijk	26 May 1976	None	Capture
					?	?	–	Transfer
					Apeldoorn	30 May 1988	766L	Loan to
					Fontaine	19 May 1992	59HL3	Loan to
524	M	9 Dec 1989	101	270	Fontaine	9 Dec 1989	59HL7	Birth
552	F	4 Feb 1991	261	279	Apeldoorn	4 Feb 1991	1003S	Birth
					Fontaine	19 May 1992	59HL4	Loan to
683	?	7 Aug 1998	101	615	Fontaine	7 Aug 1998	59HL12	Birth
688	M	28 Oct 1998	524	552	Fontaine	28 Oct 1998	59HL11	Birth
Totals: 3.2.1 (6)								
FOTA - Fota Wildlife Park, County Cork, Ireland								
467	F	~ 1987	Wild	Wild	Selangor Melaka	~ 1987	None	Capture
						~ 1988	279	Transfer

					Dublin	30 May 1991	91M058	Transfer
563	M	27 Dec 1991	305	255	Fota	11 Mar 1992	741	Loan to
					Ostrava	27 Dec 1991	OST6	Birth
718	?	13 Jan 2001	563	467	Fota	17 Jun 1993	910	Transfer
					Fota	13 Jan 2001	2839	Birth
Totals: 1.1.1 (3)								
FURUVIK - Ab Furuviksparken, S-80127 Gävle, Gävleborg, Sweden								
457	F	20 Sep 1986	195	196	Kolmarden	20 Sep 1986	364	Birth
					Furuvik	3 Nov 1989	F00001	Transfer
722	M	12 Apr 1986	Unk	Unk	Stockholm	12 Apr 1986	–	Birth
					Furuvik	3 Nov 1989	F00002	Transfer
724	F	18 Nov 1996	722	457	Furuvik	18 Nov 1996	F00005	Birth
725	F	8 Nov 1998	722	457	Furuvik	8 Nov 1998	–	Birth
726	?	23 Oct 2000	722	457	Furuvik	23 Oct 2000	–	Birth
Totals: 1.3.1 (5)								
GELSENKIRCHEN - Ruhr Zoo Gelsenkirchen, Gelsenkirchen, N Rhine-Westph, Germany								
154	F	14 Dec 1968	Unk	Unk	Zürich	14 Dec 1968	0202	Birth
					Basel	19 Dec 1969	–	Transfer
					Zürich	6 Nov 1970	0202	Transfer
					Enders O	?	–	Transfer
					Hannover	9 Jun 1971	II61	Transfer
					Gelsenkirchen	12 Oct 1972	–	Transfer
Totals: 0.1.0 (1)								
GETTORF - Tierpark Gettorf, Gettorf, Schleswig-Holstein, Germany								
311	F	~ 1979	Unk	Unk	Unknown	~ 1979	–	Birth
					Gettorf	?	2	Transfer
546	M	7 Sep 1990	Unk	Unk	Hamm	7 Sep 1990	–	Birth
					Gettorf	20 Apr 1999	–	Transfer
707	M	19 May 2000	546	311	Gettorf	19 May 2000	–	Birth
Totals: 2.1.0 (3)								
GUERNO - Parc Zoologique de Branféré, 56190 Muzillac, France								
1	M	15 Aug 1998	313	430	Besançon	15 Aug 1998	98119	Birth
					Guerno	17 Oct 1998	–	Transfer
313	M	?	Wild	Wild	Thailand	?	None	Capture
					Telandro	?	–	Transfer
					Mulhouse	12 Jul 1980	800038	Transfer
					Besançon	19 Aug 1987	1165	Loan to
					Guerno	17 Oct 1998	–	Transfer
430	F	?	Unk	Unk	Unknown	?	–	Birth
					Bern	?	–	Transfer
					Besançon	6 Nov 1987	1177	Loan to
					Guerno	17 Oct 1998	–	Transfer
626	F	18 May 1995	313	430	Besançon	18 May 1995	95024	Birth
					Guerno	17 Oct 1998	–	Transfer
754	M	21 Jan 1984	Unk	Unk	Gelsenkirchen	21 Jan 1984	–	Birth
					Dore Zoo	21 Jan 1989	PGI1	Transfer
					Guerno	10 Mar 1998	–	Loan to
Totals 3.2.0 (5)								
HAI KEF - Hai Kef Zoo Ch Golda Meir, Rishon Le Zion, Israel								
634	M	13 Sep 1995	235	307	Ramat Gan	13 Sep 1995	950020	Birth
					Hai Kef	1 Mar 2000	–	Transfer
Totals: 1.0.0 (1)								
HAMERTON - Hamerton Zoological Park, Nr Sawtry, Cambridge, England (U.K.)								
6	?	6 Aug 1999	526	582	Hamerton	6 Aug 1999	LG6	Birth
52	M	~ 1959	Wild	Wild	Thailand	~ 1959	None	Capture
					Paignton	19 Apr 1961	1449	Transfer
					Guernsey	2 Feb 1982	P13	Transfer
					Hamerton	2 Nov 1991	–	Transfer
526	M	14 Dec 1989	52	296	Guernsey	14 Dec 1989	P56	Birth
					Hamerton	2 Nov 1991	–	Transfer
582	F	30 Jan 1993	L1169	303	Burford	30 Jan 1993	1447	Birth
					Hamerton	10 Dec 1997	–	Transfer
584	F	10 Feb 1993	52	296	Hamerton	10 Feb 1993	–	Birth
699	?	5 Aug 1999	526	582	Hamerton	5 Aug 1999	–	Birth
Totals: 2.2.2 (6)								

HANNOVER - Zoo Hannover GmbH, D-30175 Hannover, Germany									
798	M	31 Mar 1988	Unk	Unk	Hannover	31 Mar 1988	II/326		Birth
Totals: 1.0.0 (1)									
HERNE BC - Herne Breeding Centre (Chris Bienvenue), 1540 Herne, Belgium									
295	F	~ 1978	Unk	Unk	Bornholm	~ 1978	–		Birth
					Hodenhagn	1 Jul 1992	–		Transfer
					Herne BC	28 Sep 1999	–		Transfer
Totals: 0.1.0 (1)									
HILVARENBEEK - Safari Beekse Bergen, 5081 Nj Hilvarenbeek, The Netherlands									
203	F	~ 1972	Wild	Wild	Laos	~ 1972	None		Capture
					Stockholm	9 May 1974	–		Transfer
					Hilvarenbeek	7 Oct 1986	M72023		Transfer
477	M	30 Jul 1987	368	367	Antwerp	30 Jul 1987	M8666		Birth
					Hilvarenbeek	20 May 1993	M87016		Loan to
687	F	16 Oct 1998	477	203	Hilvarenbeek	16 Oct 1998	M98093		Birth
788	?	19 May 2002	477	203	Hilvarenbeek	19 May 2002	M02030		Birth
H516	f	25 Oct 1989	M86024	203	Hilvarenbeek	25 Oct 1989	M89037		Birth
H587	m	2 Mar 1993	M86024	203	Hilvarenbeek	2 Mar 1993	M93007		Birth
Totals: 2.3.1 (6)									
HODENHAGEN - Serengeti Safaripark Hodenhagen, Hodenhagen, N Rhine-Westph, Germany									
478	F	1 Aug 1987	Wild	Wild	Unknown	1 Aug 1987	None		Capture
						?	–		Transfer
					Duisburg	11 Jan 1988	160		Transfer
					Hodenhagen	10 Jun 1994	–		Loan to
485	M	~ 1988	Wild	Wild	Cambodia	~ 1988	None		Capture
					U.LB.Sieg	?	–		Transfer
					Duisburg	5 Feb 1991	1176		Transfer
					Hodenhagen	10 Jun 1994	–		Loan to
633	F	6 Sep 1995	485	478	Hodenhagen	6 Sep 1995	–		Birth
670	M	15 Oct 1997	485	478	Hodenhagen	15 Oct 1997	–		Birth
700	M	21 Sep 1999	485	478	Hodenhagen	21 Sep 1999	–		Birth
Totals: 3.2.0 (5)									
HOYERSWERDA - Tiergarten Hoyerswerda, 02977 Hoyerswerda, Sachsen, Germany									
336	F	~ 1980	Wild	Wild	Thailand	~ 1981	None		Capture
					Hoyerswerda	6 Jun 1981	2		Transfer
703	F	23 Nov 1999	240	336	Hoyerswerda	23 Nov 1999	8		Birth
Totals: 0.2.0 (2)									
JERSEY - Durrell Wildlife Conservation Trust, Trinity, Jersey, Channel Islands U.K.									
333	m	~ 1980	Unk	Unk	Chilworth	~ 1980	–		Birth
					Fota	20 May 1983	492		Transfer
					Dublin	4 Nov 1988	88M007		Loan to
					Twycross	1 Feb 1996	2039		Loan to
					Jersey	18 Aug 1997	M2383		Loan to
443	F	6 Oct 1985	142	88	Twycross	6 Oct 1985	62		Birth
					Jersey	18 Jul 1997	M2384		Loan to
671	M	22 Oct 1997	333	443	Jersey	22 Oct 1997	M2394		Birth
Totals: 2.1.0 (3)									
JIHLAVA - Zoologicka Zahrada Jihlava, 586 01 Jihlava, Jihomoravsky, Czech Republic									
357	F	16 Mar 1981	Unk	Unk	Copenhagen	16 Mar 1981	–		Birth
					Jihlava	25 Jul 1984	2		Transfer
680	M	8 Apr 1998	228	357	Jihlava	8 Apr 1998	9		Birth
794	M	24 Jul 2002	228	357	Jihlava	24 Jul 2002	11		Birth
Totals: 2.1.0 (3)									
KALININGRAD - Kaliningrad Zoopark, Kaliningrad, Russian Fed									
542	F	1 Jul 1990	Unk	Unk	Unknown	1 Jul 1990	–		Birth
					Moscow	~ 1990	–		Transfer
					Kaliningrad	2 Jul 1996	100527		Transfer
Totals: 0.1.0 (1)									
KOLMARDEN - Kolmardens Djur & Naturpark, 618 92 Kolmarden, Norrkoping, Sweden									
480	M	1 Oct 1987	195	196	Kolmarden	1 Oct 1987	3472		Birth
491	F	16 Mar 1988	232	233	Eskilstuna	16 Mar 1988	57		Birth
					Kolmarden	21 Apr 1993	5176		Loan to
650	F	25 Jul 1996	480	491	Kolmarden	25 Jul 1996	6240		Birth
684	F	25 Sep 1998	480	491	Kolmarden	25 Sep 1998	7164		Birth
785	?	11 Apr 2001	480	491	Kolmarden	11 Apr 2001	8205		Birth
Totals: 1.3.1 (5)									



KÖLN - Köln Zoo, Köln, N Rhine-Westph, Germany								
487	M	23 Jan 1988	223	286	Emmen Köln	23 Jan 1988 24 Feb 2000	503010 2568	Birth Transfer
580	F	15 Dec 1992	189	269	Emmen Köln	15 Dec 1992 24 Feb 2000	503020 2570	Birth Transfer
Totals: 1.1.0 (2)								
KRAKOW - Krakow Miejski Ogrod Zoologiczny, 30-232 Krakow, Poland								
450	F	1 Jan 1986	Wild	Wild	Unknown Government Saarbrücken Krakow	~ 1986 ? 16 Jun 1989 29 Sep 1993	None - 015006 930901	Capture Transfer Transfer Transfer
481	M	9 Nov 1987	133	132	Nürnberg Krakow	9 Nov 1987 17 Dec 1991	M00766 911201	Birth Transfer
645	M	13 May 1996	481	450	Krakow	13 May 1996	960501	Birth
721	F	8 Aug 2000	481	450	Krakow	8 Aug 2000	000901	Birth
772	?	6 Jun 2002	481	450	Krakow	6 Jun 2002	020602	Birth
Totals: 2.2.1 (5)								
KRISTIANSAND - Kristiansand Dyrepark Asa, N-4609 Kardemomme by, Ostfold, Norway								
763	M	~ 1989	Unk	Unk	Sweden Kristiansand	~ 1989 18 Dec 1991	- HYLLA1	Birth Transfer
764	F	~ 1988	Unk	Unk	Kristiansand	~ 1988	HYLLA2	Birth
Totals: 1.1.0 (2)								
KRONBERG - Opel Zoo Kronberg, 61476 Kronberg, Germany								
HT2113	F	?	Unk	Unk	Berlin TP Kronberg	? 3 Dec 1980	- 3	Birth Transfer
HT2114	M	?	Unk	Unk	Zürich Kronberg	? 30 Dec 1985	- 4	Birth Transfer
HT2115	F	10 Jan 1988	HT2114	HT2113	Kronberg	10 Jan 1988	5	Birth
HT2118	M	18 Nov 1990	HT2114	HT2113	Kronberg	18 Nov 1990	6	Birth
Totals: 2.2.0 (4)								
LA PALMYRE - La Palmyre Zoo, Royan, France								
393	F	25 Jun 1983	98	Unk	La Palmyre	25 Jun 1983	26	Birth
511	M	9 Aug 1989	93	143	Amiens Le Vigen La Palmyre	9 Aug 1989 11 Nov 1997 19 Dec 2002	890002 - 3411	Birth Loan to Loan to
Totals: 1.1.0 (2)								
LA PLAINE - Espace Zool de Saint-Martin-la-Plaine, 42800 Rive-de-Gier, France								
484	M	~ Dec 1987	Wild	Wild	Thailand Leschot La Plaine	~ Dec 1987 ? 19 Aug 1988	None - S91150	Capture Transfer Transfer
Totals: 1.0.0 (1)								
LAS PALMAS - Las Palmas, Canary Isls, North Africa, African Region								
575	M	4 Oct 1992	313	430	Besaçon Guerno Las Palmas	4 Oct 1992 17 Oct 1998 18 Apr 2000	1515 - -	Birth Transfer Transfer
Totals: 1.0.0 (1)								
LE PAL - Le Pal SA, 03290 Dompierre-Sur-Besbre, France								
535	F	29 Mar 1990	Unk	381	Madrid Le Pal	29 Mar 1990 15 Apr 1993	GMB3 171	Birth Transfer
821	F	19 Jul 1999	826	535	Le Pal	19 Jul 1999	175	Birth
826	M	21 Aug 1984	Unk	Unk	U.S.A. Guerno Le Pal	21 Aug 1984 ? 28 May 1998	- - 174	Birth Transfer Transfer
Totals: 1.2.0 (3)								
LE VIGEN - Parc Paysager et Animalier Du Reynou, 87110 Le Vigen, France								
446	M	17 Oct 1985	98	Unk	La Palmyre Le Vigen	17 Oct 1985 19 Dec 2002	27 -	Birth Loan to
825	F	17 Jul 1981	Unk	Unk	Landau Le Pal Le Vigen	17 Jul 1981 6 Mar 1998 ~ May 1998	- 173 -	Birth Transfer Loan to
Totals: 1.1.0 (2)								
LESNA-GOT - Zoologicka Garden and Chateau Zlin-Les, 763 14 Zlin 12, Czech Republic								
548	M	16 Oct 1990	397	384	Emmen Lesna-Got	16 Oct 1990 6 May 1997	503019 198013	Birth Transfer
H100	F	30 Jun 1994	100009	100569	Nordhorn Lesna-Got	30 Jun 1994 29 Oct 1998	100495 199006	Birth Transfer

## Totals: 1.1.0 (2)

LILLE - Parc Zoologique de Lille, 59800 Lille, Nord, France								
429	F	?	Wild	Wild	Unknown	?	None	Capture
					CCIN Meyl	?	-	Transfer
					Besançon	6 Aug 1986	860042	Transfer
					Lille	19 Aug 1987	1164	Loan to
					Lille	30 Jan 1996	665	Loan to
514	M	5 Oct 1989	313	430	Besançon	5 Oct 1989	1304	Birth
					Lille	30 Jan 1996	664	Transfer
686	F	15 Oct 1998	514	429	Lille	15 Oct 1998	980	Birth
708	?	20 Feb 2001	514	429	Lille	20 Feb 2001	1453	Birth

## Totals: 1.2.1 (4)

LISBON - Jardim Zoologico De Lisboa, Lisboa, Portugal								
573	F	23 Jun 1992	342	395	Planckendael	23 Jun 1992	132008	Birth
					Lisbon	11 May 1998	6167	Transfer
660	M	12 Nov 1996	L1169	303	Burford	12 Nov 1996	MM17	Birth
					Lisbon	5 Oct 1999	6886	Transfer
760	M	30 Dec 2001	660	573	Lisbon	30 Dec 2001	7984	Birth

## Totals: 2.1.0 (3)

LISIEUX ZOO - Lisieux Cerza, 14100 Lisieux, France								
367	F	?	Wild	Wild	Unknown	?	None	Capture
					La Palmyre	?	-	Transfer
					Antwerp	23 Mar 1983	M7939	Transfer
					Lisieux	26 Apr 1994	M94013	Loan to
368	M	?	Wild	Wild	Unknown	?	None	Capture
					Paneels	?	-	Transfer
					Antwerp	24 Mar 1983	M7940B	Transfer
					Lisieux	26 Apr 1994	M94011	Loan to
614	F	27 Aug 1994	368	367	Lisieux	27 Aug 1994	M94025	Birth
674	F	14 Nov 1997	368	367	Lisieux	14 Nov 1997	M97080	Birth
753	?	24 Jan 2001	368	367	Lisieux	24 Jan 2001	M01003	Birth

## Totals: 1.3.1 (5)

LODZ - Lodz - Miejski Ogród Zoologiczny, 94-303 Lodz, Poland								
104	M	?	Wild	Wild	Unknown	?	None	Capture
					Holand	?	-	Transfer
					Lodz	15 Sep 1964	1224	Transfer
112	M	?	Wild	Wild	Unknown	?	None	Capture
					Holland	?	-	Transfer
					Lodz	13 Sep 1965	1308	Transfer

## Totals: 2.0.0 (2)

LONDON RP - Zoological Society of London, London, England (U.K.)								
282	f	14 Nov 1976	117	118	Malton	14 Nov 1976	-	Birth
					London RP	21 Oct 1986	A27	Loan to
						30 Jul 1997	A27	Ownership
301	M	20 Jan 1978	52	53	Paignton	20 Jan 1978	305	Birth
					Rushden	1 Feb 1984	-	Transfer
					Paignton	24 Jul 1984	305	Transfer
					Penscynor	4 Oct 1984	98	Loan to
					London RP	28 Sep 1989	A1041	Loan to
						31 Dec 1994	A1041	Ownership
586	F	22 Feb 1993	301	282	London RP	22 Feb 1993	A1704	Birth
					Induna PR	6 Feb 2003	-	lf
								Transfer

## Totals: 1.2.0 (3)

MADRID - Zoo Aquarium Madrid, 28011 Madrid, Spain								
381	F	?	Wild	Wild	Unknown	?	None	Capture
					Bangkok	?	-	Transfer
					Madrid	19 Dec 1984	GMB1	Transfer
402	M	27 Dec 1983	178	179	Copenhagen	27 Dec 1983	100750	Birth
					Madrid	25 Jun 1986	GMB2	Transfer
801	F	5 Dec 2001	402	381	Madrid	5 Dec 2001	GMB11	Birth

## Totals: 1.2.0 (3)

MAGDEBURG - Zoologischer Garten Magdeburg, D-39124 Magdeburg, Sachsen-Anhalt, Germany								
236	M	~ 1974	Wild	Wild	Unknown	~ 1974	None	Capture
					Bochum	?	-	Transfer
					Magdeburg	15 Mar 1994	210012	Loan to
259	F	4 Mar 1975	157	205	Magdeburg	4 Mar 1975	210003	Birth

					Schwerin Magdeburg	16 Jun 1980 22 May 1986	– 210003	Loan to Transfer
Totals: 1.1.0 (2)								
MALTON - Flamingo Land Ltd, Malton, Yorks, England (U.K)								
117	M	?	Unk	Unk	Unknown Malton	? ?	– –	Birth Transfer
Totals: 1.0.0 (1)								
NIKOLAEV - Nikolaev Zoo, Nikolaev, Ukraine								
556	M	5 Aug 1991	228	Unk	Jihlava Praha Nikolaev Nikolaev	5 Aug 1991 10 Apr 1996 1 Nov 1996 11 Aug 1994	6 960028 965107 945106	Birth Transfer Transfer Birth
612	F	11 Aug 1994	316	359	Nikolaev	11 Aug 1994	945106	Birth
Totals: 1.1.0 (2)								
NOVOSIBIRSK - Novosibirsk Zoo, Novosibirsk-5, Russian Fed								
469	F	5 Feb 1987	164	145	ST Peters Novosibrk	5 Feb 1987 31 Oct 1993 28 Jul 1996	MO3510 P93003 P93003	Birth Loan to Ownership
564	M	?	Unk	Unk	U.S.A. Berlin TP Novosibrk	? 8 Sep 1992 6 Nov 1992	– 92 P92000	Birth Transfer Transfer
Totals: 1.1.0 (2)								
NÜRNBERG - Tiergarten Nürnberg, D-90480 Nürnberg, Germany								
132	F	~ 1967	Wild	Wild	Wild Kunzler Nürnberg	? 18 Dec 1969 18 Dec 1969	None – M00759	Capture Transfer Transfer
133	M	~ 1967	Wild	Wild	Wild Kunzler Nürnberg	? 18 Dec 1969 18 Dec 1969	None – M00761	Capture Transfer Transfer
685	M	13 Oct 1998	133	132	Nürnberg	13 Oct 1998	M01352	Birth
781	?	23 Apr 2001	133	132	Nürnberg	23 Apr 2001	MO1719	Birth
Totals: 2.1.1 (4)								
NYIREGYHAZI - Nyiregyhazi Allatpark Kht (sosto Zoo), 4431 Sostofurdo, Hungary								
223	M	~1973 +/-1yr	Wild	Wild	Wild Xavier Emmen Apeldoorn	~ 1974 18 May 1974 4 Aug 1977 14 Jun 1988	None – 503009 759	Capture Transfer Transfer Transfer
334	M	?	Unk	Unk	Nyiregyhazi Unknown NY-Medic. Heidelbrg	24 Nov 1998 ? ? 31 Mar 1989	– – – 900023	Loan to Birth Transfer Transfer
E1016	M	?	Unk	Unk	Nyiregyhazi Unknown NY-Medic. Heidelbrg	13 Jul 1999 ? ? 31 Mar 1989	– – – 900020	Loan to Birth Transfer Transfer
E1017	F	?	Unk	Unk	Nyiregyhazi Unknown NY-Medic. Heidelbrg Nyiregyhazi	13 Jul 1999 ? ? 31 Mar 1989 13 Jul 1999	– – – 900022 –	Loan to Birth Transfer Transfer Transfer
Totals: 3.1.0 (4)								
OLMENSE - Olmense Zoo, 2491 Olmen-Balen, Belgium								
804	F	?	Unk	Unk	Berlin TP Olmense	? 14 Aug 1990	– OZ0029	Birth Transfer
805	M	12 Oct 1989	Unk	Unk	Amougies Olmense	12 Oct 1989 13 Oct 1989	– OZ0028	Birth Transfer
Totals: 1.1.0 (2)								
OLOMOUC - Zoologická Zahrada Olomouc, 783 51 Olomouc-Kopec, Severomoravsky, Czech Republic								
600	M	15 Jan 1994	305	255	Ostrava Olomouc	15 Jan 1994 ?	200067 –	Birth Transfer
635	F	2 Oct 1995	477	203	Hilvarenbeek Olomouc	2 Oct 1995 ?	M95071 –	Birth Transfer
811	M	15 Nov 1983	810	809	Bratislava Olomouc	15 Nov 1983 29 Jul 1986	M25 –	Birth Transfer
Totals: 2.1.0 (3)								
OPOLE - Ogród Zoologiczny Opole, Opole, Poland								
455	M	27 Jul 1986	189	269	Emmen Rhenen	27 Jul 1986 2 May 1992	503008 M498	Birth Transfer

509	F	15 May 1989	235	307	Opole Ramat Gan	24 Jul 2002 15 May 1989	M02058 890007	Transfer Birth
606	F	20 Mar 1994	397	384	Opole Emmen Opole	31 Aug 1999 20 Mar 1994 21 Nov 2000	M99046 503021 M20095	Transfer Birth Transfer
Totals: 1.2.0 (3)								
OSIJEK - Osijek Zoo, Osijek, Slovenia								
E1020	M	?	Unk	Unk	Unknown NY-Medic. Heidelberg	? ? 31 Mar 1989	– – 900025	Birth Transfer Transfer
E1021	F	?	Unk	Unk	Osijek Unknown Fischer Heidelberg Osijek	2 Feb 2001 ? ? 30 Nov 1994 2 Feb 2001	– – – 941199 –	Loan to Birth Transfer Transfer Loan to
Totals: 1.1.0 (2)								
OSTRAVA - Zoologicka Zahrada Ostrava, 710 00 Ostrava, Severomoravsky, Czech Republic								
715	M	26 Jan 2000	600	522	Ostrava	26 Jan 2000	OST10	Birth
716	M	19 Oct 2000	600	522	Ostrava	19 Oct 2000	OST11	Birth
Totals: 2.0.0 (2)								
PAIGNTON - Paignton Zoo Environmental Park, Paignton, Devon, England (U.K.)								
347	F	11 Sep 1980	52	53	Paignton	11 Sep 1980	143	Birth
361	M	27 Aug 1981	187	188	Stuttgart Chard Paignton	27 Aug 1981 5 May 1988 19 Apr 1989	3599 263 582	Birth Transfer Transfer
673	F	3 Nov 1997	361	347	Paignton	3 Nov 1997	1417	Birth
701	M	27 Sep 1999	361	347	Paignton	27 Sep 1999	1615	Birth
720	M	7 Aug 2000	361	596	Paignton	7 Aug 2000	1683	Birth
777	?	17 Aug 2002	361	347	Paignton	17 Aug 2002	4672	Birth
Totals: 3.2.1 (6)								
LX3	F	1 Jun 1989	LX2	222	Nordhorn Parco Faun.	1 Jun 1989 29 Mar 1995	100089 –	Birth Transfer
Totals: 0.1.0 (1)								
PEAUGRES - Safari de Peaugres, 07340 Peaugres, France								
413	F	8 Apr 1984	Unk	Unk	Bergeijk Paugres	8 Apr 1984 26 Apr 1995	– P68	Birth Loan to
437	M	3 Feb 1985	Unk	Unk	Bergeijk Paugres	3 Feb 1985 26 Apr 1995	– P67	Birth Loan to
Totals: 1.1.0 (2)								
PENSCYNOR - Pencyrnor Wildlife Park, West Glamorgan, Wales, England (U.K.)								
460	M	12 Oct 1986	52	296	Guernsey Pencyrnor	12 Oct 1986 27 Nov 1989	– 2534	Birth Loan to
490	F	16 Mar 1988	80	282	London RP Pencyrnor	16 Mar 1988 6 Nov 1989 30 Jul 1997	A82 2535 2535	Birth Loan to Ownership
Totals: 1.1.0 (2)								
PISTOIA - Giardino Zoologico di Pistoia, 51030 Pistoia, Italy								
529	F	~ 1990	Unk	Unk	Unknown Pistoia	~ 1990 ~ 1998	– –	Birth Transfer
551	M	~ 1991	Wild	Wild	Thailand Pistoia	? 1 Feb 1991	None –	Capture Transfer
Totals: 1.1.0 (2)								
PLANCKENDAEL - Royal Zool. Society of Antwerp, 2812 Mechelen (muize, Planckendael, Belgium)								
342	M	24 May 1980	49	239	Antwerp Planckendael Antwerp Planckendael Antwerp Planckendael Antwerp Planckendael	24 May 1980 ? 9 Jan 1985 17 Apr 1987 17 Nov 1987 5 May 1988 21 Oct 1988 26 Apr 1989	132004 P882 P882 132004 132004 P882 132004 P882	Birth Transfer Loan to Transfer Loan to Transfer Loan to Transfer
395	F	18 Aug 1983	195	196	Kolmarden Antwerp Planckendael Antwerp Planckendael Antwerp	18 Aug 1983 22 Nov 1986 17 Apr 1987 9 Oct 1987 5 May 1988 7 Oct 1988	362 M8552 132006 M8552 132006 M8552	Birth Transfer Loan to Transfer Loan to Transfer

667	?	9 Jul 1997	342	395	Planckendael	26 Apr 1989	132006	Loan to
714	?	31 Jan 2000	342	395	Planckendael	9 Jul 1997	132010	Birth
784	?	22 Oct 2002	342	395	Planckendael	31 Jan 2000	132011	Birth
					Planckendael	22 Oct 2002	132012	Birth
Totals: 1.1.3 (5)								
PLEUGENEUC - Zoo De La Bourbansais, 35720 Pleugueneuc, Ille-et-Vilaine, France								
790	M	~ 1990	Unk	Unk	Unknown	~ 1990	–	Birth
					Guerno	?	–	Transfer
					Pleugueneuc	12 Apr 1996	H.GI.2	Transfer
791	M	6 Sep 1998	790	792	Pleugueneuc	6 Sep 1998	H.GI.4	Birth
Totals: 2.0.0 (2)								
PLZEN - Plzen Zoological and Botanical Garden, 301 16 Plzen, Czech Republic								
567	M	29 Mar 1992	178	179	Copenhagen	29 Mar 1992	GIB001	Birth
					Praha	5 Feb 1996	960015	Loan to
					Plzen	24 Sep 1999	543/01	Loan to
601	F	29 Jan 1994	228	Unk	Jihlava	29 Jan 1994	7	Birth
					Praha	10 Apr 1996	960029	Transfer
					Plzen	24 Sep 1999	543/02	Loan to
712	M	10 Jun 2000	567	601	Plzen	10 Jun 2000	543/03	Birth
819	?	11 Dec 2002	567	601	Plzen	11 Dec 2002	543/04	Birth
					Praha	11 Dec 2002	230004	Ownership
Totals: 2.1.1 (4)								
PRAHA - Zoologická Zahrada V Praze, 171 00 Praha 7, Czech Republic								
812	M	~ 1983	Unk	Unk	Olomouc	~ 1983	–	Birth
					Bratislava	18 Feb 1988	M732	Transfer
					Praha	31 Oct 1990	–	Transfer
813	F	~ 1986	Unk	Unk	Unknown	~ 1986	–	Birth
					Ingo Pet	?	–	Transfer
					Bratislava	22 Apr 1988	M796	Transfer
					Praha	31 Oct 1990	–	Transfer
Totals: 1.1.0 (2)								
PRIVATE - Private Collection								
574	F	19 Sep 1992	368	367	Antwerp	19 Sep 1992	M9388	Birth
					Lisieux Z	26 Apr 1994	M94014	Loan to
					Usti	15 Jun 1998	UL9827	Transfer
					Private	28 Jul 1998	None	Loan to
Totals: 0.1.0 (1)								
PUNTA VERDE - Parco Zoo Punta Verde, Lignano Sabbiadoro, Udine, Italy								
530	M	~ 1990	Wild	Wild	Wild	~ 1990	None	Capture
					CITES	1 Nov 1998	–	Transfer
					Punta Verde	24 Nov 1998	1118	Transfer
572	F	30 May 1992	452	292	Wuppertal	30 May 1992	92044	Birth
					Punta Verde	9 Apr 1999	1117	Transfer
Totals: 1.1.0 (2)								
RAMAT GAN - Tel Aviv/Ramat Gan Zoological Center, Ramat-Gan 52109, Israel								
307	F	20 Oct 1978	134	55	Melbourne	20 Oct 1978	M00178	Birth
					Ramat Gan	29 Apr 1988	880003	Transfer
678	M	27 Jan 1998	235	307	Ramat Gan	27 Jan 1998	980001	Birth
711	F	7 Dec 2000	235	307	Ramat Gan	7 Dec 2000	200022	Birth
Totals: 1.2.0 (3)								
RHEINE - NaturZoo Rheine, Rheine, N Rhine-Westph, Germany								
355	F	~1981 +/-1yr	Wild	Wild	Unknown	?	None	Capture
					Hannover	14 Aug 1983	II272	Transfer
					Rheine	17 Nov 1983	–	Transfer
373	M	1 May 1982	133	132	Nürnberg	1 May 1982	M00764	Birth
					Rheine	4 Dec 1988	–	Transfer
585	M	20 Feb 1993	373	355	Rheine	20 Feb 1993	–	Birth
705	F	6 Dec 1999	373	355	Rheine	6 Dec 1999	–	Birth
Totals: 2.2.0 (4)								
RHENEN - Ouweland Zoo, 3910 Aa Rhenen, The Netherlands								
538	F	26 May 1990	373	355	Rheine	26 May 1990	–	Birth
					Rhenen	1 Jul 2002	104	Transfer
643	M	22 Mar 1996	455	348	Rhenen	22 Mar 1996	M908	Birth
Totals: 1.1.0 (2)								
ROTTERDAM - Rotterdam Zoo, 3000 Am Rotterdam, The Netherlands								
129	M	~ Aug 1966	Wild	Wild	Unknown	~ Aug 1966	None	Capture
					Vervoom	?	–	Transfer

					Rotterdam	24 Jan 1968	Transfer	
197	F	~ 1971	Wild	Wild	Unknown	100215	None	Capture
					Kuala Lumpur	~ 1971	–	Transfer
					Rotterdam	8 May 1974	100216	Transfer
665	F	18 Apr 1997	129	197	Rotterdam	18 Apr 1997	105559	Birth
Totals: 1.2.0 (3)								
SAARBRÜCKEN - Saarbrücken Zoological Garden, D-66121 Saarbrücken, Germany								
352	F	~ 1981	Unk	Unk	Unknown	~ 1981	–	Birth
					Government	?	–	Transfer
425	M	16 Dec 1984	133	132	Saarbrücken	28 Jun 1983	015004	Loan to
					Nürnberg	16 Dec 1984	M00765	Birth
598	M	16 Oct 1993	425	352	Saarbrücken	31 May 1990	015008	Transfer
					Saarbrücken	16 Oct 1993	015010	Birth
Totals: 2.1.0 (3)								
SALZBURG - Salzburg Zoo Hellbrunn, Anif, Austria								
300	M	~ 1978	Wild	Wild	Unknown	~ 1978	None	Capture
					Zoo Eiber	?	–	Transfer
					Munich	25 Apr 1980	022001	Transfer
312	F	~ 1979	Wild	Wild	Salzburg	28 Mar 1985	M148	Loan to
					Unknown	~ 1979	None	Capture
					Zoo Eiber	?	–	Transfer
					Munich	25 Apr 1980	022002	Transfer
625	M	28 Apr 1995	300	312	Salzburg	28 Mar 1985	M147	Loan to
765	M	13 Aug 2001	300	312	Salzburg	28 Apr 1995	M296	Birth
					Salzburg	13 Aug 2001	962	Birth
Totals: 3.1.0 (4)								
SANARY - Jardin Exotique de Sanary-Bandol, Sanary-Sur-Mer, Var, France								
448	F	27 Oct 1985	157	205	Magdeburg	27 Oct 1985	210006	Birth
					La Plaine	20 Jan 1995	S95007	Transfer
					Sanary	3 Dec 1999	–	Transfer
Totals: 0.1.0 (1)								
SCHWERIN - Zoologischer Garten Schwerin, 19061 Schwerin, Germany								
121	M	~ 1965	Unk	Unk	Hamburg	~ 1965	–	Birth
					Berlin TP	21 Apr 1967	67	Transfer
					Schwerin	28 Apr 1983	–	Transfer
Totals: 1.0.0 (1)								
SOUTH LAKES - South Lakes Wild Animal Park, Dalton-in-Furness, Cumbria, England (U.K.)								
273	F	3 Jan 1976	142	88	Twycross	3 Jan 1976	H57	Birth
					Banham	17 Apr 1983	531	Transfer
					South Lakes	21 May 1998	SL0454	Transfer
433	M	13 Jan 1985	117	118	Malton	13 Jan 1985	–	Birth
					Banham	26 May 1993	1210	Loan to
					South Lakes	21 May 1998	SL0453	Transfer
632	M	20 Aug 1995	433	273	Banham	20 Aug 1995	1874	Birth
					South Lakes	21 May 1998	SL0455	Transfer
696	M	16 Apr 1999	433	273	South Lakes	16 Apr 1999	HL0001	Birth
Totals: 3.1.0 (4)								
613	F	23 Aug 1994	178	179	Copenhagen	23 Aug 1994	GIB002	Birth
					Sosto-Erd	16 Jun 1998	–	Loan to
Totals: 0.1.0 (1)								
SOUTHPORT - Southport Zoo, Southport, Merseyside, England (U.K.)								
125	F	~ 1966	Wild	Wild	Unknown	~ 1966	None	Capture
					Dudley	~ 1967	–	Transfer
					Southport	~ 1969	690001	Transfer
234	M	~ 1974	Wild	Wild	Unknown	~ 1974	None	Capture
					Manchestr	?	–	Transfer
					Colwyn Bay	12 Sep 1978	246	Transfer
					Twycross	11 Sep 1979	H55	Loan to
					Southport	~ Jan 1983	830001	Loan to
263	F	1 Jan 1975	17	125	Southport	1 Jan 1975	750001	Birth
453	M	2 Jun 1986	235	307	Melbourne	2 Jun 1986	860036	Birth
					Ramat Gan	27 Apr 1988	880004	Transfer
					Twycross	22 Sep 1992	415	Transfer
					Southport	6 Jun 1996	960601	Loan to
458	F	6 Oct 1986	234	125	Southport	6 Oct 1986	861001	Birth

682	F	6 Aug 1998	453	458	Southport	6 Aug 1998	980802	Birth
719	M	22 Dec 2000	453	458	Southport	22 Dec 2000	001204	Birth
Totals: 3.4.0 (7)								
ST. PETERSBURG – Leningrad Zoo - St. Petersburg, Russian Fed								
602	M	1 Feb 1994	315	293	St. Petersburg	1 Feb 1994	MO3518	Birth
652	F	12 Sep 1996	315	145	St. Petersburg	12 Sep 1996	MO3520	Birth
Totals: 1.1.0 (2)								
STUTT GART - Wilhelma Zoo, Stuttgart, Baden-Württem, Germany								
261	M	~ 1975	Wild	Wild	Unknown	?	None	Capture
					Bergeijk	~ 1976	–	Transfer
					Apeldoorn	8 May 1982	412L	Loan to
					Bergeijk	17 Jun 1985	–	Transfer
					Apeldoorn	30 May 1988	412L	Loan to
					Fontaine	19 May 1992	59HL2	Loan to
					Stuttgart	28 Mar 1996	6015	Transfer
394	F	29 Jul 1983	187	188	Stuttgart	29 Jul 1983	3600	Birth
661	F	27 Nov 1996	261	394	Stuttgart	27 Nov 1996	6242	Birth
690	F	3 Dec 1998	261	394	Stuttgart	3 Dec 1998	7383	Birth
710	F	2 Jan 2000	261	394	Stuttgart	2 Jan 2000	7543	Birth
775	?	22 Sep 2002	261	394	Stuttgart	22 Sep 2002	8000	Birth
Totals: 1.4.1 (6)								
SZEGED - Szeged Zoo, H-6701 Szeged, Cserepes-Sor, Hungary								
H260	F	25 Apr 1975	Unk	Unk	Jaderberg	25 Apr 1975	–	Birth
					Berlin Zoo	12 May 1977	770028	Transfer
					Szeged	26 Sep 1996	2	Loan to
Totals: 0.1.0 (1)								
THOIRY - Thoiry Zoological Park, 78770 Thoiry, France								
278	m	17 Apr 1976	149	132	Nürnberg	17 Apr 1976	M00762	Birth
					Rheine	13 Nov 1982	–	Transfer
					Gronau	6 Nov 1991	–	Transfer
					Peaugres	11 Dec 1991	P60	Transfer
					Thoiry	1 May 2001	A1026	Transfer
Totals: 1.0.0 (1)								
THULE - Tierpark Thule, Friesoythe, N Rhine-Westph, Germany								
603	M	19 Feb 1994	240	336	Hoyerswerda	19 Feb 1994	4	Birth
					Thule	6 Aug 1998	–	Transfer
Totals: 1.0.0 (1)								
TWYXCROSS - Twycross Zoo, Atherstone, Warwickshire, England (U.K.)								
88	F	~ 1962	Wild	Wild	Unknown	~ 1962	None	Capture
					Delves	~ 1963	–	Transfer
					Twycross	12 Jul 1966	56	Transfer
370	F	~ Feb 1982	Wild	Wild	Unknown	~ Feb 1982	None	Capture
					Government	~ Aug 1982	–	Transfer
					Twycross	25 Aug 1982	60	Transfer
619	F	4 Dec 1994	453	443	Twycross	4 Dec 1994	693	Birth
628	M	1 Jul 1995	5	467	Fota	1 Jul 1995	1430	Birth
					Twycross	20 Jun 2000	3456	Loan to
656	F	20 Oct 1996	453	443	Twycross	20 Oct 1996	2001	Birth
Totals: 1.4.0 (5)								
UNKNOWN - Unknown Location								
817	M	4 Jun 1996	Unk	Unk	Unknown	4 Jun 1996	–	Birth
					Ebeltoft	13 Feb 2003	LAR002	Transfer
818	F	27 Oct 1998	Unk	Unk	Unknown	27 Oct 1998	–	Birth
					Ebeltoft	13 Feb 2003	LAR001	Transfer
Totals: 1.1.0 (2)								
VIENNA - Schoenbrunner Tiergarten GmbH, A-1130 Vienna, Austria								
677	M	16 Jan 1998	300	312	Salzburg	16 Jan 1998	M638	Birth
					Vienna	26 Sep 2001	M2364	Transfer
816	F	~ 1988	Unk	Unk	Unknown	~ 1988	–	Birth
					Freiburg	?	–	Transfer
					Vienna	26 Apr 2002	M2425	Transfer
828	M	26 Nov 2002	677	816	Vienna	26 Nov 2002	M2495	Birth
Totals: 2.1.0 (3)								
WALTER ZOO - Walter Zoo, CH-9202 Gossau/SG, St. Gallen, Switzerland								
375	F	1 Jun 1982	Unk	Unk	Private	1 Jun 1982	–	Birth
					Walter	1 Jan 1984	23-2	Transfer

681	M	30 May 1998	507	375	Walter	30 May 1998	23-4	Birth
Totals: 1.1.0 (2)								
WROCLAW - Miejski Ogród Zoologiczny Wrocławiu, PL-51-688 Wrocław, Poland								
346	M	26 Aug 1980	159	227	Wrocław	26 Aug 1980	198996	Birth
466	F	~ 1987	Unk	Unk	Unknown	~ 1987	–	Birth
					Wrocław	5 Dec 1988	198999	Transfer
Totals: 1.1.0 (2)								
WUPPERTAL - Zoologischer Garten Wuppertal, Wuppertal, N Rhine-Westph, Germany								
186	F	?	Wild	Wild	Unknown	?	None	Capture
					Bildstein	?	–	Transfer
					Duisburg	30 Oct 1971	150	Transfer
					Xavier	~ 1979	–	Transfer
					Wuppertal	4 Jun 1980	80013	Loan to
						?	–	Transfer
292	F	18 Aug 1977	63	175	Wuppertal	18 Aug 1977	77047	Birth
452	M	21 Apr 1986	129	197	Rotterdam	21 Apr 1986	102786	Birth
					Wuppertal	6 Jun 1990	90043	Transfer
581	F	28 Jan 1993	63	186	Wuppertal	28 Jan 1993	93007	Birth
599	M	7 Nov 1993	133	132	Nürnberg	7 Nov 1993	M00768	Birth
					Wuppertal	25 Jul 1996	96042	Transfer
605	F	12 Mar 1994	452	292	Wuppertal	12 Mar 1994	94013	Birth
618	M	22 Nov 1994	452	292	Wuppertal	22 Nov 1994	94061	Birth
					Walter	2 Apr 2003	–	Transfer
668	M	11 Jul 1997	452	292	Wuppertal	11 Jul 1997	97046	Birth
762	M	25 Apr 2001	452	292	Wuppertal	25 Apr 2001	201018	Birth
787	F	13 Nov 2001	599	605	Wuppertal	13 Nov 2001	201051	Birth
Totals: 5.5.0 (10)								
YARMOUTH - Thrigby Hall Wildlife Gardens, Great Yarmouth, Norfolk, England (U.K.)								
596	F	23 Sep 1993	361	347	Paignton	23 Sep 1993	1066	Birth
					Yarmouth	1 Aug 2001	–	Transfer
623	M	23 Jan 1995	117	118	Malton	23 Jan 1995	–	Birth
					Yarmouth	24 May 2001	–	Transfer
770	?	28 Oct 2002	623	596	Yarmouth	28 Oct 2002	–	Birth
Totals: 1.1.1 (3)								
ZAGREB - Zagreb Zoo, 10 000 Zagreb, Croatia								
427	M	~ 1985	Unk	Unk	Unknown	~ 1985	–	Birth
					J. Hop	?	–	Transfer
					Magdeburg	11 Sep 1987	210009	Transfer
					Zagreb	4 May 1995	Transfer	
						114029		
531	F	~1990 +/-1yr	Unk	Unk	Unknown	~1990 +/-1yr	–	Birth
					J. Hop	?	–	Transfer
					Zagreb	11 Mar 1994	114032	Transfer
Totals: 1.1.0 (2)								
<b>TOTALS: 151.148.21 (320)</b>								
105 Institutions								



## Age Report

### Ages at death for animals surviving to at least 30 days

Sex	25th %tile	Median	75th %tile	Maximum	N
Males	2Y,1M,11D	7Y,9M,7D	18Y,7M,16D	39Y,0M,23D	117
Females	3Y,5M,17D	9Y,1M,8D	17Y,2M,26D	41Y,1M,21D	118
Unknown sex	4M,21D	2Y,3M,17D	4Y,6M,13D	6Y,9M,27D	10

### Oldest dozen males

Stud #	Birth type	Died at	At age of
98	Wild	La Palmyre	~39Y
58	Unknown	Dudley	~37Y
130	Unknown	Yarmouth	~33Y
5	Wild	Fota	~33Y
134	Wild	Melbourne	~32Y
63	Wild	Wuppertal	~32Y
62	Wild	Wuppertal	~31Y
151	Unknown	Gettorf	~30Y
228	Captive	Jihlava	28Y,9M,28D
178	Wild	Copenhagen	~28Y
144	Wild	Philadelphia	~27Y
240	Captive	Hoyerswerda	~27Y

### Oldest dozen females

Stud #	Birth type	Died at	At age of
55	Captive	Melbourne	~41Y
59	Unknown	Dudley	~37Y
53	Wild	Paignton	~35Y
85	Wild	Philadelphia	~34Y
126	Wild	Yarmouth	~33Y
118	Unknown	Malton	~32Y
145	Unknown	St. Petersburg	~31Y
108	Captive	Fota	30Y,8M,3D
179	Wild	Copenhagen	~30Y
256	Wild	Nikolaev	~27Y
269	Wild	Köln	~26Y
168	Captive	London RP	26Y,1M,15D

### Oldest dozen unknown sex

Stud #	Birth type	Died at	At age of
50	Wild	Twycross	~6Y
60	Wild	Twycross	~6Y
79	Unknown	Whipsnade	4Y,9M,3D
123	Unknown	Twycross	~4Y
140	Captive	Twycross	2Y,10M,11D
653	Captive	Lille	1Y,8M,23D
693	Captive	Praha	6M,19D
779	Captive	Colchester	5M,26D
672	Captive	Fontaine	3M,17D
675	Captive	Saarbrücken	2M,5D

## Ages for animals surviving to present

Sex	25th %tile	Median	75th %tile	Maximum	N
Males	7Y,1M,13D	12Y,11M,14D	18Y,8M,26D	44Y,8M,25D	138
Females	7Y,11M,28D	13Y,7M,4D	20Y,7M,13D	41Y,8M,24D	138
Unknown sex	11M,8D	2Y,1M,9D	2Y,9M,12D	6Y,2M,8D	22

## Oldest dozen living males

Stud #	Birth type	At	Age
52	Wild	Hamerton	~44Y
101	Wild	Fontaine	~40Y
99	Wild	Amsterdam	~40Y
122	Captive	Berlin TP	~38Y
121	Captive	Schwerin	~38Y
129	Wild	Rotterdam	~37Y,1M
133	Wild	Nürnberg	~36Y
766	Wild	Wesmi	~30Y
223	Wild	Nyiregyha	~30Y,8M,21D
236	Wild	Magdeburg	~29Y
234	Wild	Southport	~29Y
232	Wild	Eskilstuna	~29Y

## Oldest dozen living females

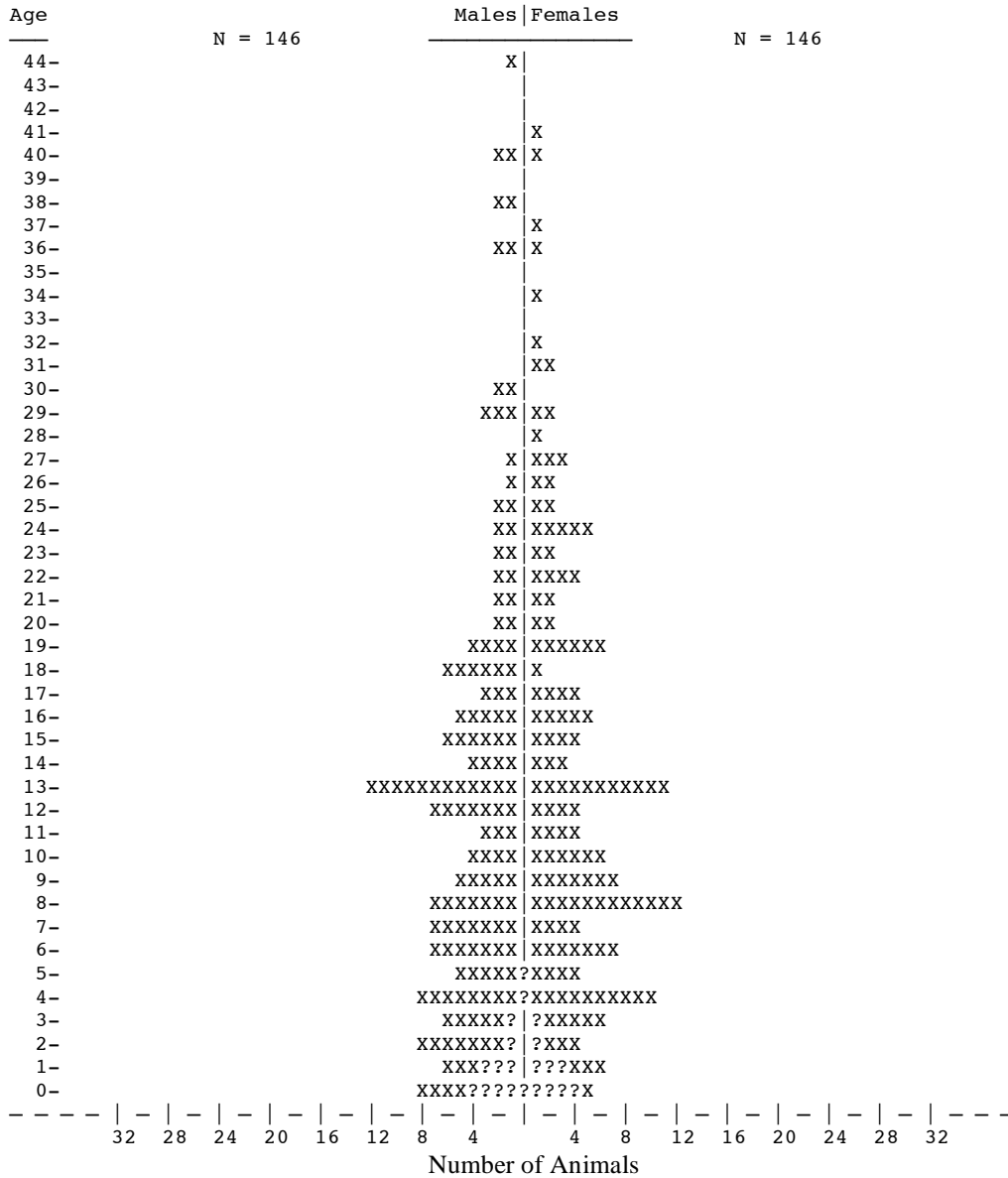
Stud #	Birth type	At	Age
88	Wild	Twycross	~41Y
100	Wild	Amsterdam	~40Y
125	Wild	Southport	~37Y
132	Wild	Nürnberg	~36Y
154	Captive	Gelsenkirchen	34Y,9M,9D
197	Wild	Rotterdam	~32Y
199	Wild	Pretoria	~31Y
214	Wild	Asson	~31Y
203	Wild	Hilvarenbeek	~31Y
230	Captive	Chessington	29Y,9M,19D
233	Wild	Eskilstuna	~29Y
263	Captive	Southport	28Y,8M,21D

## Oldest dozen living unknown sex

Stud #	Birth type	At	Age
667	Captive	Planckendael	16Y,2M,8D
683	Captive	Fontaine	5Y,1M,10D
699	Captive	Hamerton	4Y,1M,12D
6	Captive	Hamerton	4Y,1M,11D
714	Captive	Planckendael	3Y,7M,15D
726	Captive	Furuvik	2Y,10M,23D
718	Captive	Fota	2Y,8M,2D
753	Captive	Lisieux	2Y,7M,21D
708	Captive	Lille	2Y,6M,25D
785	Captive	Kolmarden	2Y,5M,5D
781	Captive	Nürnberg	2Y,4M,23D
774	Captive	Bochum	1Y,9M,24D

### Age Pyramid Report

Dates: As of 31/12/2002  
 Status: Living on 31 Dec 2002



X = Specimens of known sex  
 ? = Specimens of unknown sex  
 14 Male Specimens of unknown age  
 11 Female Specimens of unknown age

Specimens of unknown sex

Age	Studbook Numbers								
44									
43									
42									
41									
40									
39									
38									
37									
36									
35									
34									
33									
32									
31									
30									
29									
28									
27									
26									
25									
24									
23									
22									
21									
20									
19									
18									
17									
16									
15									
14									
13									
12									
11									
10									
9									
8									
7									
6									
5	667								
4	683								
3	6	699							
2	714	726							
1	708	718	753	774	781	785			
0	770	772	775	777	780	784	786	788	819

Total= 21

## Sterile females

Age	Studbook Numbers
44	
43	
42	
41	
40	
39	
38	
37	
36	
35	
34	
33	
32	
31	
30	
29	
28	
27	
26	282
25	
24	
23	
22	
21	
20	
19	
18	
17	
16	
15	
14	
13	H516
12	
11	
10	
9	
8	
7	
6	
5	
4	
3	
2	
1	
0	

---

Total= 2

## Sterile males

Age	Studbook Numbers
44	
43	
42	
41	
40	
39	
38	
37	
36	
35	
34	
33	
32	
31	
30	
29	
28	
27	
26	278
25	
24	
23	333
22	
21	
20	
19	
18	
17	
16	
15	
14	
13	
12	
11	
10	
9	H587
8	
7	
6	
5	
4	
3	
2	
1	
0	

---

Total= 3

## Males

Age	Studbook Numbers													
44	52													
43														
42														
41														
40	99	101												
39														
38	121	122												
37														
36	129	133												
35														
34														
33														
32														
31														
30	223	766												
29	232	234	236											
28														
27	261													
26														
25	300	L1169												
24	301	747												
23	LX2													
22	342	346												
21	361	362												
20	373	812												
19	389	397	402	811										
18	422	425	427	473	754	826								
17	433	437	446											
16	452	453	455	460	722									
15	475	477	480	481	484	485								
14	487	497	763	798										
13	511	514	517	521	524	526	528	530	738	790	805	827		
12	539	546	547	548	550	551	HT2118							
11	554	556	563											
10	565	567	575	H722										
9	585	588	598	599										
8	600	602	603	608	616	618	758							
7	623	624	625	627	628	632	634							
6	643	644	645	646	655	660	817							
5	664	668	669	670	671									
4	1	677	678	680	681	685	688	791						
3	692	696	700	701	783									
2	707	712	715	716	717	719	720							
1	760	762	765											
0	771	778	794	828										
Unk	104	107	112	117	313	334	368	407	428	564	729	E1016	E1020	HT2114

Total= 149

## Females

Age	Studbook Numbers											
-----	-----											
44												
43												
42												
41	88											
40	100											
39												
38												
37	125											
36	132											
35												
34	154											
33												
32	197											
31	203	214										
30												
29	230	233										
28	263											
27	259	273	H260									
26	279											
25	292	295										
24	303	307	310	311	312							
23	336	748										
22	343	347	352	355								
21	357	825										
20	370	375										
19	385	393	394	395	398	767						
18	413											
17	443	448	450	813								
16	457	458	464	466	467							
15	469	478	764	816								
14	490	491	HT2115									
13	509	512	523	525	529	531	532	742	756	LX3		
12	535	538	542	543								
11	552	557	558	561								
10	8	572	573	574	578	580						
9	581	582	584	586	592	593	596					
8	601	605	606	609	612	613	614	615	619	620	759	H100
7	626	631	633	635								
6	650	652	656	658	661	724	751					
5	665	673	674	800								
4	4	679	682	684	686	687	690	725	803	818		
3	698	702	703	705	821							
2	710	711	721									
1	773	787	801									
0	808											
Unk	186	367	381	429	430	502	746	804	E1017	E1021	HT2113	

Total= 146



## Reproductive Parameters Report

Dates: As of 31/12/2002

Gestation period set to 120 days, ~4.0 months.

### Dam data

61 reported dams, with 103.102.32 (237) offspring  
(not including 225 offspring of unknown dams)

#### Youngest dams at first birth:

615	at age 3Y, 10M, 1D
502	at age 4Y, 2M, 12D
430	at age 4Y, 9M, 4D
367	at age 4Y, 9M, 28D
601	at age 5Y, 0M, 1D
457	age 5Y, 1M, 13D
609	age 5Y, 5M, 5D
395	age 6Y, 3M, 13D
582	age 6Y, 6M, 6D
525	age 6Y, 7M, 4D

#### Oldest dams at first birth:

186	age 18Y, 11M, 5D
100	age 18Y, 0M, 11D
203	age 17Y, 9M, 28D
357	age 15Y, 11M, 6D
816	age 14Y, 10M, 29D
292	age 14Y, 9M, 15D
336	age 14Y, 1M, 23D
375	age 13Y, 7M, 3D
279	age 13Y, 6M, 23D
394	age 13Y, 4M, 3D

#### Oldest dams to have given birth:

132	age 34Y, 3M, 30D
125	age 32Y, 3M, 7D
132	age 31Y, 9M, 19D
197	age 30Y, 10M, 5D
203	age 30Y, 4M, 24D
197	age 30Y, 0M, 18D
132	age 29Y, 10M, 3D
88	age 27Y, 10M, 3D
88	age 26Y, 11M, 26D
132	age 26Y, 10M, 13D

Median age of females at first reproduction: 9Y, 2M, 0D

Mean age of females at first reproduction: 9Y, 5M, 27D

Median age of females at reproduction: 13Y, 7M, 3D

Mean age of females at reproduction: 14Y, 5M, 18D

## Shortest interbirth intervals

Dam stud #	Interval (days) between births	Offspring stud #
343	240	506 & 523
292	255	605 & 618
88	257	303 & 309
367	274	461 & 477
88	277	362 & 377
88	283	350 & 362
230	284	577 & 593
307	288	562 & 576
197	291	713 & 761
347	297	627 & 644
88	311	499 & 518
381	324	631 & 648

## Dams with most offspring

Dam stud #	Numbers of offspring
347	10
132	10
88	10
381	9
197	9
312	8
367	7
307	7
303	7
233	7
395	6
292	6

## Birth seasonality

Month	Births	
	N	%
January	27	12%
February	11	5%
March	19	8%
April	17	7%
May	15	6%
June	14	6%
July	12	5%
August	16	7%
September	14	6%
October	28	12%
November	33	14%
December	28	12%

[Litters with a birthdate estimated as 'Y' are not included here.]

## Viability

Rearing	Individuals	Viability					
		Lived > 1 year		Died < 1 year		Died < 30 days	
Parent	213	185	87%	14	7%	14	7%
Hand	8	7	88%	1	13%	0	0%
Unknown	16	10	63%	2	13%	4	25%
		202	85%	17	7%	18	8%

## Litter size

Litter size	Births	
	N	%
1	231	99%
2	3	1%

234 total litters, mean size is 1.0

## Multiple births (if less than 5% of total):

596/597

569/570

699/6

693/694

## Sire data

63 reported sires, with 100.97.34 (231) offspring

## Youngest sires at first reproduction:

(male's age when dam conceived)

564	age 2Y, 1M, 29D
407	age 2Y, 6M, 30D
HT2114	age 2Y, 8M, 11D
368	age 4Y, 5M, 30D
677	age 4Y, 6M, 13D
660	age 4Y, 9M, 20D
600	age 5Y, 0M, 14D
722	age 5Y, 2M, 23D
452	age 5Y, 9M, 12D
425	age 5Y, 9M, 24D

## Oldest sires at first reproduction:

101	age 26Y, 7M, 16D
99	age 17Y, 8M, 13D
826	age 14Y, 7M, 2D
362	age 14Y, 5M, 12D
333	age 13Y, 4M, 13D
517	age 12Y, 6M, 26D
129	age 12Y, 6M, 11D
301	age 12Y, 0M, 20D
133	age 11Y, 11M, 22D
548	age 11Y, 10M, 5D

## Oldest sires to have reproduced:

101	age 35Y, 3M, 16D
129	age 34Y, 11M, 8D
129	age 34Y, 1M, 22D
133	age 34Y, 0M, 1D
52	age 33Y, 9M, 20D
133	age 31Y, 5M, 21D
52	age 30Y, 7M, 22D
129	age 30Y, 4M, 26D
101	age 30Y, 1M, 13D
117	age 29Y, 9M, 0D

Median age of males at first reproduction: 8Y, 6M, 23D

Mean age of males at first reproduction: 8Y, 10M, 0D

Median age of males at reproduction: 12Y, 6M, 19D

Mean age of males at reproduction: 14Y, 2M, 12D

(all ages are at dam conception)

Sires with most offspring:

Sire stud #	Numbers of offspring
361	11
223	10
52	10
261	9
133	9
129	9
402	8
300	8
L1169	7
453	7
368	7
232	7

### Causes of Death Report

Dates: As of 31/12/2002

Total number of deaths recorded: 368

#### Circumstance of death

Euthanasia	17	5%
Self Inflicted Injuries	3	1%
Injury from Exhibit Mate	6	2%
Malicious Destruction	4	1%
Old Age	2	1%
Infection Associated	48	13%
Injury from Predator	0	0%
Env. or Beh. Conditions	24	7%
Stillbirth	12	3%
Premature Birth	10	3%
Anesth./Restraint Assoc.	2	1%
Died in Transit	0	0%
Stranded/Beached	0	0%
Other/Unknown	240	65%

#### Carcass disposition

Incinerated	38	10%
Buried	12	3%
Given to an Institution	21	6%
Sold to an Institution	1	0%
Mounted or Preserved	5	1%
Unknown	279	76%
Rendered	12	3%

## Necropsy code-topographic

Generalized	24	7%
Integumentary	0	0%
Musculoskeletal	2	1%
Respiratory	15	4%
Cardiovascular	12	3%
Hemic and Lymph	0	0%
Digestive	14	4%
Urinary	3	1%
Endocrine	4	1%
Nervous	2	1%
Reproductive	1	0%
Sense Organs	0	0%
No Necropsy Planned	210	57%
Necropsy Planned Later	11	3%
Unknown (after Necropsy)	70	19%

## Necropsy code-etiological

Genetic and Prenatal	1	0%
Bacterial	18	5%
Fungal	0	0%
Metazoan	3	1%
PPLO	0	0%
Protothecal	0	0%
Protozoan	0	0%
Rickettsial	1	0%
Viral	5	1%
Toxicity	3	1%
Trauma	3	1%
Circulatory, secondary	5	1%
Enervation, secondary	2	1%
Mechanical Abnormality	7	2%
Metabolism	1	0%
Nutrition	3	1%
New Growths	3	1%
Unknown (after necropsy)	313	85%

## Combined topographic/etioloical codes

9	Generalized / Bacterial
2	Generalized / Trauma
2	Generalized / Circulatory, secondary
2	Generalized / Nutrition
2	Generalized / New Growths
7	Generalized / Unknown (after necropsy)
1	Musculoskeletal / Genetic and Prenatal
1	Musculoskeletal / Mechanical Abnormality
3	Respiratory / Bacterial
2	Respiratory / Viral
2	Respiratory / Toxicity
1	Respiratory / Trauma
1	Respiratory / Circulatory, secondary
2	Respiratory / Mechanical Abnormality
4	Respiratory / Unknown (after necropsy)
2	Cardiovascular / Bacterial
1	Cardiovascular / Toxicity
2	Cardiovascular / Circulatory, secondary
3	Cardiovascular / Mechanical Abnormality
4	Cardiovascular / Unknown (after necropsy)
4	Digestive / Bacterial
3	Digestive / Metazoan
3	Digestive / Viral
1	Digestive / Enervation, secondary
1	Digestive / Nutrition
2	Digestive / Unknown (after necropsy)
1	Urinary / Rickettsial
1	Urinary / Mechanical Abnormality
1	Urinary / Metabolism
1	Endocrine / New Growths
3	Endocrine / Unknown (after necropsy)
1	Nervous / Enervation, secondary
1	Nervous / Unknown (after necropsy)
1	Reproductive / Unknown (after necropsy)
210	No Necropsy Planned / Unknown (after necropsy)
11	Necropsy Planned Later / Unknown (after necropsy)
70	Unknown (after Autopsy) / Unknown (after necropsy)