

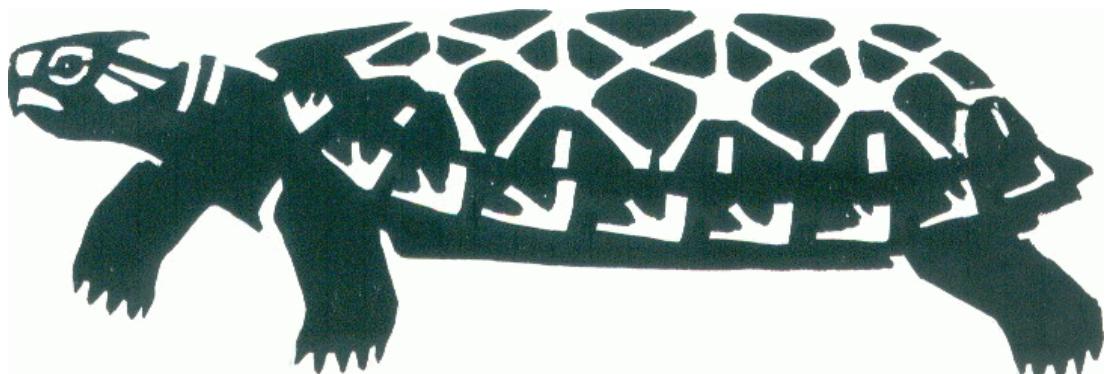
EUROPEAN STUDBOOK BREEDING PROGRAMME

for / für

MALACOCHERSUS TORNIERI
(Pancake tortoise / Spaltenschildkröte)

2004

at private locations / bei privaten Haltern



European Studbook Foundation
Fabian Schmidt, Studbook keeper



ESF *Malacochersus tornieri*

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Cover / Titelbild: Wolfgang Weber, Frankfurt am Main

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PREFACE

This is the second studbook edition for the pancake tortoises. The studbook is compiled using SPARKS 1.52 and the analysis conducted using Population Management 2000.

As you can see on the cover, the studbook has a new logo. It is a great honour and a great pleasure for me, that the famous animal artist Wolfgang Weber from Frankfurt – a member of „Artists for nature“ – designed this logo free of charge. Thus, special thanks go to Wolfgang.

Again the number of participants increased from 17 to 25. In total 224 specimens are registered (2003: 132), of which 155 (2003: 79) form the studbook population. Since the start of the studbook in 1996 the population of the participants increased on average for 17 % a year. Fortunately this increase is mainly due to hatching success (83) that surpasses the number of imports (41). In the meantime more than two third of the specimens in the studbook are hatched under human care. Nevertheless I am still looking for new studbook participants. You can help me in this matter tremendously by making tortoise keepers aware of the studbook and by encouraging your colleagues to participate in the studbook.

The updated bibliography at the end of the studbook contains numerous hints on literature on the biology of this species. I would like to point especially on two recently published articles: Michael Ewert et al. conducted research on the temperature-dependent sex determination (Journal of Herpetology) and Patrick Malonza published results from his M.Sc. thesis on ecology and distribution of this species in Kenya (Journal of East African Natural History).

Fabian Schmidt, Frankfurt a. M., April 2005

VORWORT

Hiermit liegt die zweite Ausgabe des Zuchtbuches für Spaltenschildkröten vor. Die Dateneingabe wird weiterhin durch SPARKS 1.52 vorgenommen, die Analyse mit Population Management 2000.

Wie Sie dem Titelbild entnehmen können, erscheint das Zuchtbuch ab diesem Jahr mit einem Logo. Es ist eine große Ehre für das Zuchtbuch und freut mich ganz besonders, daß der berühmte Frankfurter Tiermaler Wolfgang Weber – ein Mitglied von „Artists for nature“ – bereit war, dieses Logo kostenlos zu entwerfen. Dafür gebührt ihm herzlicher Dank!

Erneut ist die Anzahl der Teilnehmer angestiegen und zwar von 17 auf 25. Insgesamt sind jetzt 224 Tiere (2003: 132) registriert, von denen 155 (2003: 79) sich noch in der Zuchtbuchpopulation befinden.

Erfreulich ist, daß die Population bei den Zuchtbuchteilnehmern seit dem Beginn des Zuchtbuches 1996 jährlich im Schnitt um 17 % angewachsen ist. Dabei überwiegt die Anzahl Schlupferfolge (83) die Anzahl Importe (41) deutlich. Mittlerweile sind mehr als zwei Drittel aller Tiere im Zuchtbuch bereits in Menschenobhut geschlüpft. Nichtsdestotrotz bin ich auch weiterhin auf der Suche nach weiteren Zuchtbuch-Teilnehmern und bin dabei auch auf Ihre Hilfe angewiesen: Bitte helfen Sie mit, dieses Zuchtbuch in Schildkrötenhalter-Kreisen noch bekannter zu machen und Ihre Bekannten für das Zuchtbuch anzuwerben.

Die Bibliographie am Ende des Zuchtbuches enthält zahlreiche Literaturhinweise zur Biologie von *Malacochersus tornieri*. Sie wurde für diese Ausgabe aktualisiert. Dabei möchte ich vor allem auf zwei neu erschienene Artikel hinweisen: Zum einen untersuchten Michael Ewert et al. Die temperaturabhängige Geschlechtsbestimmung (Journal of Herpetology), zum anderen publizierte Patrick Malonza Daten aus seiner Diplomarbeit zur Ökologie und Verbreitung dieser Art in Kenya (Journal of East African Natural History).

Fabian Schmidt, Frankfurt am Main, April 2004



HISTORICAL REGISTER / HISTORISCHES ZUCHTBUCH

Pancake tortoise / Spaltenschildkröte
(*Malacochersus tornieri*)

Studbook population / Zuchtbuchpopulation 1985 - 2004

First date of studbook / Erster Zuchtbucheintrag : 1985
Generations / Generationen : 0-3
Inbreeding coefficient / Inzuchtkoeffizient : 0.000

	Total	Males	Females	Unknown
Studbook (Historical) / Historischer Bestand	224	65	80	79
Imports / Importe	112	46	61	5
of which wild-caught / davon Wildfänge	97	38	55	4
Hatches / Schlupferfolge	112	19	19	74
Deaths / Todesfälle	53	20	23	10
Exports (e.g. to USA, ESB; or lost-to-follow-up)	16	1	1	14
Current population / Derzeitiger Bestand	155	44	56	55
Captive-bred specimens in current population / In Menschenobhut geschlüpfte Tiere	103 (=66.5%)	25	23	55

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date		Local ID	Event	ESB Studb
T00001	M	????	WILD	WILD	UNKNOWN 001	???? 11 Nov 1991 001 12 Oct 1998	NONE 91/1	Capture Transfer Death		
T00002	F	????	WILD	WILD	UNKNOWN 001 005	???? 11 Nov 1991 8 Oct 1994 005 22 Dec 1998	NONE 91/2	Capture Transfer Loan to Death		
T00003	F	????	WILD	WILD	UNKNOWN 001	???? 11 Nov 1991 21 Oct 1995	NONE 91/3	Capture Transfer Death		
T00004	?	????	WILD	WILD	UNKNOWN 002	???? ~ 1 Jan 1991	NONE	Capture ltf Transfer		
T00005	?	????	WILD	WILD	UNKNOWN 002	????	NONE	Capture ltf Transfer		
T00006	?	????	WILD	WILD	UNKNOWN 002	???? ~ 1 Jan 1991	NONE	Capture ltf Transfer		
T00007	?	????	WILD	WILD	UNKNOWN 002	???? ????	NONE	Capture ltf Transfer		
T00008	M	~ 1988	WILD	WILD	UNKNOWN 021 003	???? ~ 1 Dec 1991 19 Oct 1993	NONE	Capture Transfer ltf Transfer		
T00009	F	????	WILD	WILD	UNKNOWN 021 003 005	???? ~ 1 Dec 1991 19 Oct 1993 9 Jan 2003 23 Jan 2003	NONE	Capture Transfer Transfer Transfer Death		
T00010	M	????	WILD	WILD	UNKNOWN 022 023	???? ~ Jan 1992 24 Dec 1992 27 Aug 1994	NONE	Capture Transfer Transfer Death		
T00011	F	????	WILD	WILD	UNKNOWN 022 023	???? ~ Jan 1992 24 Dec 1992 4 Mar 1995	NONE	Capture Transfer Transfer Death		
T00012	F	????	WILD	WILD	UNKNOWN 022 023	???? ~ Jan 1992 24 Dec 1992 21 Oct 1995	NONE	Capture Transfer Transfer Death		
T00013	F	????	WILD	WILD	UNKNOWN 005	???? ~ 8 Jan 1988 5 Jun 1994	NONE	Capture Transfer Death		
T00014	M	????	WILD	WILD	UNKNOWN 005 023	???? ~ Jan 1992 22 Oct 1994 12 Jul 1995	NONE	Capture Transfer Transfer Death		
T00015	F	????	WILD	WILD	UNKNOWN 005	???? ~ Jan 1992 30 Apr 1994	NONE	Capture Transfer Death		
T00016	M	????	WILD	WILD	UNKNOWN 005	???? ~ Jan 1992 19 May 1994	NONE	Capture Transfer Death		
T00017	M	~ 1985	WILD	WILD	UNKNOWN 005	???? 1 Dec 1989 1 Apr 2002	NONE	Capture Transfer Death		

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studb!
T00018	M	????	WILD	WILD	UNKNOWN 004 FRANKFURT	???? 4 Jun 1991 5 May 2001 9 Nov 2001	NONE 910604 E04437	Capture Transfer Loan to Death	
T00019	F	????	WILD	WILD	UNKNOWN 004 FRANKFURT 018	???? 18 Jan 1992 5 May 2001 5 May 2003	NONE 920118 E04438	Capture Transfer Loan to Loan to	ESB T1219
T00020	F	????	WILD	WILD	UNKNOWN 004 FRANKFURT	???? 1 Apr 1988 5 May 2001 14 Aug 2002	NONE 8804-I E04439	Capture Transfer Transfer Death	ESB T1220
T00021	M	~ 1980	WILD	WILD	UNKNOWN DREWS ROTTERDAM 005	???? 5 Dec 1987 13 Jan 1995 3 Aug 1996	NONE 700200 HZ0309	Capture Transfer Transfer Transfer Death	ESB T1001
T00022	F	????	WILD	WILD	UNKNOWN DREWS ROTTERDAM 005	???? 5 Dec 1987 18 Jan 1995 24 Oct 1997	NONE 700201 HZ310	Capture Transfer Transfer Transfer Death	ESB T1002
T00023	F	????	WILD	WILD	UNKNOWN DREWS ROTTERDAM DUBLIN	???? 5 Dec 1987 29 Mar 1995	NONE 700202 95R006 ltf	Capture Transfer Transfer Transfer	ESB T1003
T00024	?	2 Dec 1989	T00025	T00022	ROTTERDAM 005	2 Dec 1989 1 Feb 1992 3 Nov 1993	701713 HZ0063	Hatch Transfer Death	ESB T1022
T00025	M	????	WILD	WILD	UNKNOWN DREWS ROTTERDAM DUBLIN	???? 5 Dec 1987 29 Mar 1995 5 Apr 1998	NONE 700050 95R005	Capture Transfer Transfer Transfer Death	ESB T1004
T00026	F	????	WILD	WILD	UNKNOWN 046 006	???? 24 Oct 1989	NONE V-1	Capture Transfer Transfer	
T00027	F	????	WILD	WILD	UNKNOWN 047 006	???? 16 Nov 1991 11 Sep 1997	NONE V-2	Capture Transfer Transfer Death	
T00028	F	????	WILD	WILD	UNKNOWN 047 006	???? 16 Nov 1991 18 Sep 1999	NONE V-3	Capture Transfer Transfer Death	
T00029	F	????	WILD	WILD	UNKNOWN 047 006	???? 11 Mar 1993 8 Jul 1999	NONE V-4	Capture Transfer Transfer Death	
T00030	M	????	WILD	WILD	UNKNOWN 046 006	???? 24 Oct 1989 27 Oct 2003	NONE M-1	Capture Transfer Transfer Death	
T00031	M	????	WILD	WILD	UNKNOWN 047 006	???? 16 Nov 1991 20 Nov 1997	NONE M-2	Capture Transfer Transfer Death	

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studb
T00032	M	????	WILD	WILD	UNKNOWN 047 006	???? ???? 16 Nov 1991 3 Oct 1993	NONE M-3	Capture Transfer Transfer Death	
T00033	M	????	WILD	WILD	UNKNOWN 047 006	???? ???? 11 Mar 1993 16 Aug 1993	NONE M-4	Capture Transfer Transfer Death	
T00034	F	~ 1980	WILD	WILD	UNKNOWN 007 005	???? ~ 1 Jan 1990 28 Aug 2002	NONE HZ0847	Capture Transfer Loan to	
T00035	F	????	WILD	WILD	UNKNOWN 007	???? ~ 1 Jan 1990 ~Aug 2002	NONE	Capture Transfer Death	
T00036	M	~ 1980	WILD	WILD	UNKNOWN 024 007 005	???? ~ 1 Apr 1992 7 May 1994 28 Aug 2002	NONE HZ0846	Capture Transfer Transfer Loan to	
T00037	M	????	WILD	WILD	UNKNOWN 024 007	???? ~ 1 Apr 1992 7 May 1994 ~Sep 1994	NONE	Capture Transfer Transfer Death	
T00038	?	31 Aug 1993	T00017	T00013	005	31 Aug 1993 3 Sep 1993	HZ0071	Hatch Death	
T00039	M	24 Aug 1994	T00017	T00013	005	24 Aug 1994	HZ0238	Hatch	ESB T1300
T00040	M	3 Mar 1996	T00018	T00019	004 005 008	3 Mar 1996 2 May 1998 18 Dec 2001 10 Apr 2003	960303 MTM07	Hatch Transfer Transfer Death	
T00041	F	2 Jun 1996	T00018	T00019	004 005	2 Jun 1996 2 May 1998	960602 HZ0544	Hatch Transfer	ESB T1301
T00042	F	2 Mar 1997	T00018	T00020	004 014	2 Mar 1997 11 Mar 1999	970302 VICTOR	Hatch Transfer	
T00043	F	20 Mar 1997	T00018	T00019	004 014	20 Mar 1997 11 Mar 1999	970320 DYANA	Hatch Transfer	
T00044	F	6 May 1997	T00018	T00020	004 008	6 May 1997 14 Aug 1999 17 Oct 2000	970506 MTF06	Hatch Transfer Death	
T00045	F	6 May 1997	T00018	T00019	004 013	6 May 1997 25 Jun 1999	970506 HZ0544	Hatch Transfer	
T00046	?	27 May 1997	T00018	T00020	004 AMERSFOOR	27 May 1997 26 Aug 1997 27 Mar 1999	970527 H210	Hatch Loan to Death	ESB T1076
T00047	F	16 Jun 1997	T00018	T00019	004 AMERSFOOR 005	16 Jun 1997 26 Aug 1997 22 Dec 1999	970616 H209 HZ0675	Hatch Loan to Transfer	ESB T1302
T00048	M	????	WILD	WILD	UNKNOWN 005	???? 10 Apr 1997 12 Sep 1997	NONE HZ0472	Capture Transfer Death	

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studb
T00049	F	????	WILD	WILD	UNKNOWN 005	???? 10 Apr 1997 4 Sep 1997	NONE HZ0473	Capture Transfer Death	
T00050	F	????	WILD	WILD	UNKNOWN 005	???? 10 Apr 1997 4 Sep 1997	NONE HZ0474	Capture Transfer Death	
T00051	F	~ 1990	WILD	WILD	UNKNOWN IGUANA 005	???? 10 Apr 1997 8 Nov 1998	NONE HZ0475	Capture Transfer Transfer Death	
T00052	F	????	WILD	WILD	UNKNOWN 005	???? 10 Apr 1997 29 Jul 1997	NONE HZ0508	Capture Transfer Death	
T00053	?	30 Mar 1998	T00018	T00019	004 010 028	30 Mar 1998 22 Nov 1998 23 Jul 2000	980330 09830_	Hatch Transfer ltf Transfer	
T00054	M	29 Mar 1989	WILD	MULT1	010 029	29 Mar 1989 1 Jun 2002	9854/8	Hatch Transfer	
T00055	F	????	WILD	WILD	UNKNOWN HOCH 010 029	???? 18 Apr 1987 1 Jun 2002	NONE 3006/0	Capture Transfer Transfer Transfer	
T00056	F	6 Apr 1998	T00054	T00055	010 004 015	6 Apr 1998 22 Nov 1998 26 Oct 2000	980819 980406 GERTRU	Hatch Transfer Transfer	
T00057	M	6 Apr 1998	T00018	T00020	004 015	6 Apr 1998 26 Oct 2000	980406 VICTOR	Hatch Transfer	
T00058	F	9 May 1998	T00018	T00020	004 001	9 May 1998 28 May 1999	980509 VROUW5	Hatch Transfer	
T00059	M	3 Jun 1998	T00018	T00019	004 001	3 Jun 1998 28 May 1999	980603 MAN59	Hatch Transfer	
T00060	F	13 May 1998	T00054	T00055	010 004 015	13 May 1998 22 Nov 1998 26 Oct 2000	980513 HELGA	Hatch Transfer Transfer	
T00061	?	1 Jul 1998	T00018	T00020	004 010 028	1 Jul 1998 22 Nov 1998 23 Jul 2000	980701 _____	Hatch Transfer ltf Transfer	
T00062	?	10 Jul 1998	T00054	T00055	010 028	10 Jul 1998 10 Jul 1999	_____	Hatch ltf Transfer	
T00063	F	30 May 1994	MULT2	MULT1	010 011	30 May 1994 19 Feb 1995	MT0001	Hatch Transfer	
T00064	F	28 Aug 1994	MULT2	MULT1	010 011	28 Aug 1994 19 Feb 1995	MT0002	Hatch Transfer	
T00065	M	????	WILD	WILD	TANZANIA 025 011	???? 17 Feb 1996	NONE MT0003	Capture Transfer Transfer	
T00066	F	????	WILD	WILD	TANZANIA 025 011	???? 17 Feb 1996	NONE MT0004	Capture Transfer Transfer	
T00067	F	~ 1992	UNK	UNK	025 011	~ 1992 20 Mar 1996 13 Feb 2000	MT0005	Hatch Transfer Death	

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studb
T00068	M	????	WILD	WILD	TANZANIA 011	???? 16 Jan 1998	NONE MT0006	Capture Transfer	
T00069	F	????	WILD	WILD	TANZANIA 011	???? 16 Jan 1998	NONE MT0007	Capture Transfer	
T00070	M	13 Apr 1999	T00018	T00020	004 017	13 Apr 1999 13 May 2000	990413 990413	Hatch Loan to	
T00071	?	13 Mar 1999	T00054	T00055	010 028	13 Mar 1999 10 Jul 1999	_____	Hatch ltf Transfer	
T00072	?	19 Apr 1999	T00054	T00055	010 028	19 Apr 1999 10 Jul 1999	_____	Hatch ltf Transfer	
T00073	F	4 Jun 1999	T00018	T00020	004 017	4 Jun 1999 13 May 2000	990604 990604	Hatch Loan to	
T00074	M	12 Jul 1999	T00018	T00020	004 017	12 Jul 1999 13 May 2000 3 Oct 2004	990712 990712	Hatch Loan to Death	
T00075	M	~ 1988	WILD	WILD	UNKNOWN 012 031	???? 12 Feb 1992 13 Dec 2003	NONE MAXI _____	Capture Transfer Transfer	
T00076	F	~ 1988	WILD	WILD	UNKNOWN 012 031	???? 17 Feb 1992 13 Dec 2003	NONE LP _____	Capture Transfer Transfer	
T00077	F	~ 1993	WILD	WILD	UNKNOWN 012 031	???? 10 Feb 1997 13 Dec 2003	NONE NONAME _____	Capture Transfer Transfer	
T00078	M	11 Jun 1996	T00075	T00076	012 031	11 Jun 1996 13 Dec 2003	FLACHM _____	Hatch Transfer	
T00079	?	26 Apr 1999	T00075	T00076	012 001	26 Apr 1999 21 Aug 1999 3 Nov 2000	_____	Hatch Transfer Death	
T00080	?	20 May 1999	T00075	T00077	012 001	20 May 1999 21 Aug 1999 ~ 2000	_____	Hatch Transfer Death	
T00081	?	2 Feb 2000	T00018	T00019	004 026	2 Feb 2000 18 May 2001	000202 ltf	Hatch Transfer	
T00082	M	17 May 1999	MULT3	T00063	011 018	17 May 1999 14 Nov 2000	MT0008 _____	Hatch Loan to	
T00083	?	8 May 2000	T00018	T00020	004 BASEL	8 May 2000 18 May 2001	000508 010007	Hatch ltf Transfer	ESB T1202
T00084	?	15 Jun 2000	T00018	T00020	004 BASEL	15 Jun 2000 18 May 2001	000615 010008	Hatch ltf Transfer	ESB T1203
T00085	M	17 Jun 2001	T00018	T00020	004 019	17 Jun 2001 8 Jul 2001	010617 _____	Hatch Loan to	
T00086	F	18 Jun 2001	T00018	T00020	004 019	18 Jun 2001 8 Jul 2001	010618 _____	Hatch Loan to	
T00087	M	20 Jun 2001	T00018	T00019	004 019	20 Jun 2001 8 Jul 2001	010620 _____	Hatch Loan to	
T00088	?	4 May 2001	T00018	T00020	004 019	4 May 2001 8 Jul 2001 ~ Dec 2001	010504 _____	Hatch Loan to Death	
T00089	F	25 Feb 2001	MULT3	T00063	011 019	25 Feb 2001 13 Apr 2003	MT0009 _____	Hatch Loan to	

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studb!
T00090	M	30 Apr 2002	MULT3	T00063	011 045	30 Apr 2002 11 Sep 2004	MT0010 333	Hatch Loan to	
T00091	?	24 Apr 2003	MULT3	T00063	011	24 Apr 2003	MT0011	Hatch	
T00092	M	????	WILD	WILD	UNKNOWN 027 014	???? ????	NONE THOMAS	Capture Transfer Transfer	
T00093	M	21 Jun 2000	UNK	_____	030 FRANKFURT 017	21 Jun 2000 21 Jun 2000 22 May 2001 13 Apr 2003	E04448 E04448 _____	Hatch Ownership Transfer Transfer	ESB T1221
T00094	M	????	WILD	WILD	UNKNOWN 020	???? 8 Mar 2000	NONE M1	Capture Transfer	
T00095	F	????	WILD	WILD	UNKNOWN 020	???? 8 Mar 2000	NONE F2	Capture Transfer	
T00096	M	30 Dec 2002	T00057	T00060	015 016	30 Dec 2002 5 Sep 2003	P0FFER PB0082	Hatch Transfer	
T00097	M	25 Feb 2003	T00057	T00060	015 016	25 Feb 2003 5 Sep 2003	_____	Hatch Transfer	
T00098	M	25 Feb 2003	T00057	T00060	015 016	25 Feb 2003 5 Sep 2003	_____	Hatch Transfer	
T00099	M	????	WILD	WILD	UNKNOWN 032 013	???? ???? 9 Sep 1987 30 May 2004	NONE _____	Capture Transfer Transfer Death	
T00100	F	????	WILD	WILD	UNKNOWN 032 013	???? ???? 9 Sep 1987	NONE _____	Capture Transfer Transfer	
T00101	F	????	UNK	UNK	025 013	???? 7 Jan 1992	_____	Hatch Transfer	
T00102	F	13 Oct 1996	MULT4	MULT5	013	13 Oct 1996	_____	Hatch	
T00103	M	18 Apr 1997	MULT4	MULT5	013	18 Apr 1997	_____	Hatch	
T00104	M	11 Jun 1997	MULT4	MULT5	013	11 Jun 1997	_____	Hatch	
T00105	?	26 Jun 2000	MULT4	MULT5	013	26 Jun 2000	_____	Hatch	
T00106	?	7 Jun 2001	MULT6	MULT7	013	7 Jun 2001	_____	Hatch	
T00107	?	20 Sep 2001	MULT6	MULT7	013	20 Sep 2001	_____	Hatch	
T00108	?	4 Jan 2002	MULT6	MULT7	013	4 Jan 2002	_____	Hatch	
T00109	?	1 Apr 2002	MULT6	MULT7	013	1 Apr 2002	_____	Hatch	
T00110	?	28 Apr 2002	MULT6	MULT7	013	28 Apr 2002	_____	Hatch	
T00111	?	13 May 2002	MULT6	MULT7	013	13 May 2002	_____	Hatch	
T00112	?	12 May 2003	MULT6	MULT7	013 035	12 May 2003 26 Jan 2004	_____	Hatch ltf Transfer	
T00113	?	6 Jul 2003	MULT6	MULT7	013 035	6 Jul 2003 26 Jan 2004	_____	Hatch ltf Transfer	
T00114	?	24 Jun 2003	T00054	T00055	029	24 Jun 2003	_____	Hatch	

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studb
T00115	M	????	WILD	WILD	UNKNOWN 027 033	???? ???? ~ Aug 2002	NONE MENNCH	Capture Transfer Transfer	
T00116	F	????	WILD	WILD	UNKNOWN 027 033	???? ???? ~ Aug 2002	NONE WEIBCH	Capture Transfer Transfer	
T00117	?	~ Jan 2003	T00115	T00116	033	~ Jan 2003	SCHL.1	Hatch	
T00118	?	~ Mar 2003	T00115	T00116	033 034	~ Mar 2003 ~ 2003	SCHL.2	Hatch Transfer	
T00119	?	~ Apr 2003	T00115	T00116	033 034	~ Apr 2003 ~ 2003	SCHL.3	Hatch Transfer	
T00120	?	~ Jun 2003	T00115	T00116	033	~ Jun 2003	SCHL.4	Hatch	
T00121	F	????	WILD	WILD	UNKNOWN 008	???? ~ Jan 1997	NONE MTF01	Capture Transfer	
T00122	F	????	WILD	WILD	UNKNOWN 008	???? ~ Jan 1997	NONE MTF02	Capture Transfer	
T00123	M	????	WILD	WILD	UNKNOWN 008	???? ~ Jan 1997	NONE MTM03	Capture Transfer	
T00124	M	????	WILD	WILD	UNKNOWN 008	???? ~ Jan 1997 29 May 2001	NONE MTM04	Capture Transfer Death	
T00125	F	????	WILD	WILD	UNKNOWN 008	???? ~ Jan 1997	NONE MTF07	Capture Transfer	
T00126	M	????	UNK	UNK	036 008	???? 28 Sep 1999	MTM06	Hatch Transfer	
T00127	F	????	UNK	UNK	036 008	???? 18 Sep 1999	MTF08	Hatch Transfer	
T00128	F	~ 1999	UNK	UNK	036 008	~ 1999 1 Oct 1999	MTF09	Hatch Transfer	
T00129	?	13 Mar 2003	T00126	T00127	008	13 Mar 2003 16 Mar 2003	MTU01	Hatch Death	
T00130	?	12 Apr 2003	T00126	T00127	008	12 Apr 2003	MTU02	Hatch	
T00131	?	30 May 2003	T00123	T00122	008	30 May 2003	MTU03	Hatch	
T00132	?	3 Mar 2004	T00123	T00121	008	3 Mar 2004	MTU04	Hatch	
T00133	M	~ 1971	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 1	Capture Transfer	
T00134	F	~ 1971	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 2	Capture Transfer	
T00135	F	~ 1985	T00133	T00134	UNKNOWN 009	~ 1985 ~ 2001	_____3	Hatch Transfer	
T00136	M	~ 1985	T00133	T00134	UNKNOWN 009	~ 1985 ~ 2001	_____4	Hatch Transfer	
T00137	M	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 5	Capture Transfer	
T00138	M	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 6	Capture Transfer	
T00139	F	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 7	Capture Transfer	

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date		Local ID	Event	ESB Studb
T00140	F	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 8	Capture Transfer		
T00141	F	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 9	Capture Transfer		
T00142	F	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 10	Capture Transfer		
T00143	F	~ 1998	UNK	UNK	038 009	~ 1998 ~ 2002	_____ 11	Hatch Transfer		
T00144	M	~ 1987	UNK	UNK	027 037 009	~ 1987 ~ Aug 2002 ~ 2003	_____ 12	Hatch Transfer Transfer		
T00145	M	~ 2000	UNK	UNK	027 033 009 040	~ 2000 ~ Aug 2002 ~ 2003 20 Nov 2004	_____ 13 13	Hatch Transfer Transfer Transfer		
T00146	?	~ Dec 2001	MULT8	MULT9	009 040	~ Dec 2001 20 Nov 2004	14 14	Hatch Transfer		
T00147	F	~ Dec 2001	MULT8	MULT9	009	~ Dec 2001	15	Hatch		
T00148	?	~ Dec 2001	MULT8	MULT10	009 040	~ Dec 2001 20 Nov 2004	16 16	Hatch Transfer		
T00149	?	~ Aug 2002	MULT8	MULT10	009	~ Aug 2002	17	Hatch		
T00150	?	~ Aug 2002	MULT8	MULT10	009	~ Aug 2002	18	Hatch		
T00151	?	~ Sep 2002	MULT8	MULT10	009	~ Sep 2002	19	Hatch		
T00152	?	~ Sep 2002	MULT8	MULT10	009	~ Sep 2002	20	Hatch		
T00153	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	21	Hatch		
T00154	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	22	Hatch		
T00155	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	23	Hatch		
T00156	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	24	Hatch		
T00157	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	25	Hatch		
T00158	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	26	Hatch		
T00159	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	27	Hatch		
T00160	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	28	Hatch		
T00161	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	29	Hatch		
T00162	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	30	Hatch		
T00163	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	31	Hatch		
T00164	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	32	Hatch		
T00165	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	33	Hatch		
T00166	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	34	Hatch		
T00167	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	35	Hatch		
T00168	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	36	Hatch		
T00169	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	37	Hatch		
T00170	?	~Jun 2004	MULT11	MULT12	009	~Jun 2004	38	Hatch		

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studb
T00171	?	~Jun 2004	MULT11	MULT12	009	~Jun 2004	39	Hatch	
T00172	?	~Jun 2004	MULT11	MULT12	009	~Jun 2004	40	Hatch	
T00173	?	~Jun 2004	MULT11	MULT12	009	~Jun 2004	41	Hatch	
T00174	F	????	WILD	WILD	UNKNOWN 039	???? 3 May 1992	NONE	Capture Transfer	
T00175	M	????	WILD	WILD	UNKNOWN 039	???? 3 May 1992 ????	NONE	Capture Transfer Death	
T00176	F	????	WILD	WILD	UNKNOWN 039	???? 9 Apr 1996	NONE	Capture Transfer	
T00177	M	????	WILD	WILD	UNKNOWN 039	???? 2 Dec 1997	NONE	Capture Transfer	
T00178	F	????	WILD	WILD	UNKNOWN 039	???? 5 Mar 1998	NONE	Capture Transfer	
T00179	F	????	WILD	WILD	UNKNOWN 039	???? 5 Mar 1998	NONE	Capture Transfer	
T00180	M	5 Jun 2000	T00175	T00174	039	5 Jun 2000	_____	Hatch	
T00181	F	8 Jul 2002	T00175	T00174	039	8 Jul 2002	_____	Hatch	
T00182	M	????	WILD	WILD	UNKNOWN 018	???? ~ 2000	NONE	Capture Transfer	
T00183	F	????	WILD	WILD	UNKNOWN 018	???? ~ 2000	NONE	Capture Transfer	
T00184	F	????	WILD	WILD	UNKNOWN 018 FRANKFURT	???? 11 Dec 1997 31 Jul 1999 29 Jun 2001	NONE	Capture Transfer Loan to Death	
T00185	M	????	WILD	WILD	UNKNOWN FRANKFURT 018	???? 26 Aug 2002 5 May 2003	NONE	Capture Transfer Loan to	
T00186	M	~ 2000	WILD	WILD	UNKNOWN FRANKFURT 018	???? 26 Aug 2002 5 May 2003	NONE	Capture Transfer Loan to	
T00187	F	6 Apr 1997	MULT2	MULT1	010 TRADE 041	6 Apr 1997 ???? 16 Sep 2002	_____ S001	Hatch Transfer Transfer	
T00188	M	~ 1998	UNK	UNK	042 TRADE 041	~ 1998 ???? 16 Sep 2002	_____ S002	Hatch Transfer Transfer	
T00189	M	9 Aug 1997	MULT2	MULT1	010 TRADE 041	9 Aug 1997 ???? 16 Sep 2002	_____ S003	Hatch Transfer Transfer	
T00190	M	~ 1998	UNK	UNK	042 TRADE 041	~ 1998 ???? 16 Sep 2002	_____ S004	Hatch Transfer Transfer	
T00191	F	????	WILD	WILD	UNKNOWN 042 041	???? ???? 29 Dec 2002	NONE _____ S005	Capture Transfer Transfer	
T00192	F	????	WILD	WILD	UNKNOWN 042 041	???? ???? 29 Dec 2002	NONE _____ S006	Capture Transfer Transfer	

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studb#
T00193	?	11 Apr 2004	MULT13	T00187	041	11 Apr 2004	SNZ001	Hatch	
T00194	M	????	WILD	WILD	UNKNOWN 043	???? 22 Aug 2000	NONE 1	Capture Transfer	
T00195	M	????	WILD	WILD	UNKNOWN 043	???? 22 Aug 2000	NONE 2	Capture Transfer	
T00196	F	????	WILD	WILD	UNKNOWN 043	???? 22 Aug 2000	NONE 3	Capture Transfer	
T00197	F	????	WILD	WILD	UNKNOWN 043	???? 22 Aug 2000	NONE 4	Capture Transfer	
T00198	F	????	WILD	WILD	UNKNOWN 043	???? 22 Aug 2000	NONE 5	Capture Transfer	
T00199	F	~May 1999	T00200	T00201	043	~May 1999	6	Hatch	
T00200	M	????	WILD	WILD	UNKNOWN 043 044	???? ???? 18 Jul 2004	NONE 582004	Capture Transfer Transfer	
T00201	F	????	WILD	WILD	UNKNOWN 043 044	???? ???? 18 Jul 2004	NONE 592004	Capture Transfer Transfer	
T00202	?	~Mar 2003	T00200	T00201	043 044	~Mar 2003 18 Jul 2004	2/2003	Hatch Transfer	
T00203	?	~Mar 2003	T00200	T00201	043 044	~Mar 2003 18 Jul 2004	3/2003	Hatch Transfer	
T00204	M	????	UNK	UNK	036 008	???? 1 Nov 2001	MTM05	Hatch Transfer	
T00205	F	????	WILD	WILD	UNKNOWN 047 006	???? ???? 17 Jul 1995 13 Nov 1999	NONE V-5	Capture Transfer Transfer Death	
T00206	F	????	WILD	WILD	UNKNOWN 047 006	???? ???? 17 Jul 1995 18 Aug 2002	NONE V-6	Capture Transfer Transfer Death	
T00207	F	????	WILD	WILD	UNKNOWN 047 006	???? ???? 17 Jul 1995 23 Apr 2003	NONE V-7	Capture Transfer Transfer Death	
T00208	M	????	WILD	WILD	UNKNOWN 047 006	???? ???? 17 Jul 1995 28 Feb 2002	NONE M-5	Capture Transfer Transfer Death	
T00209	?	22 Aug 1998	MULT14	MULT15	006	22 Aug 1998 5 Dec 2001	J-1	Hatch Death	
T00210	?	8 May 1999	MULT14	MULT15	006	8 May 1999 18 Jun 2002	J-2	Hatch Death	
T00211	M	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002944	Capture Transfer Transfer	
T00212	F	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002941	Capture Transfer Transfer	

PANCAKE TORTOISE Studbook (*Malacochersus tornieri*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date		Local ID	Event	ESB Studb
T00213	F	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002943	Capture Transfer		
T00214	F	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002935	Capture Transfer		
T00215	?	17 Jan 2004	T00057	T00056	015	17 Jan 2004	PAN	Hatch		
T00216	?	~May 2004	T00115	T00116	033	~May 2004		1	Hatch	
T00217	?	~Jun 2004	T00115	T00116	033	~Jun 2004		2	Hatch	
T00218	?	26 Jun 2004	T00075	MULT16	031	26 Jun 2004			Hatch	
T00219	?	8 Jul 2004	T00054	T00055	029	8 Jul 2004			Hatch	
T00220	?	19 Jul 2004	T00039	T00041	005	19 Jul 2004	HZ0980		Hatch	
T00221	?	23 Jul 2004	T00094	T00095	020	23 Jul 2004 28 Sep 2004			Hatch Death	
T00222	?	~Jul 2004	T00115	T00116	033	~Jul 2004		3	Hatch	
T00223	?	~Sep 2004	T00115	T00116	033	~Sep 2004		4	Hatch	
T00224	?	5 Nov 2004	T00054	T00055	029	5 Nov 2004			Hatch	
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TOTALS: 65.80.79 (224)										

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Species Notes

MULT1: T00055 or UNK
 MULT2: T00054 or UNK
 MULT3: T00065 or T00068
 MULT4: T00099 or UNK
 MULT5: T00100 or T00101
 MULT6: T00099, T00103 or T00104
 MULT7: T00045, T00100, T00101 or T00102
 MULT8: T00133 or T00136
 MULT9: T00134 or T00135
 MULT10: T00134, T00135 or T00143
 MULT11: T00133, T00136, T00137 or T00138
 MULT12: T00134, T00135, T00139, T00140, T00141, T00142 or T00143
 MULT13: T00188, T00189 or T00190
 MULT14: T00030, T00031 or T00208
 MULT15: T00026, T00028, T00029, T00205, T00206 or T00207
 MULT16: T00076 or T00077



HATCHES / SCHLUPFERFOLGE 2004

PANCAKE TORTOISE Studbook			(Malacochersus tornieri)							
Stud #	Sex	Hatch Date	Sire	Dam	Location	Date		Local ID	Event	ESB Studbk
T00132	?	3 Mar 2004	T00123	T00121	008		3 Mar 2004	MTU04	Hatch	
T00162	?	~Apr 2004	MULT11	MULT12	009		~Apr 2004	30	Hatch	
T00163	?	~Apr 2004	MULT11	MULT12	009		~Apr 2004	31	Hatch	
T00164	?	~Apr 2004	MULT11	MULT12	009		~Apr 2004	32	Hatch	
T00165	?	~Apr 2004	MULT11	MULT12	009		~Apr 2004	33	Hatch	
T00166	?	~Apr 2004	MULT11	MULT12	009		~Apr 2004	34	Hatch	
T00167	?	~Apr 2004	MULT11	MULT12	009		~Apr 2004	35	Hatch	
T00168	?	~Apr 2004	MULT11	MULT12	009		~Apr 2004	36	Hatch	
T00169	?	~Apr 2004	MULT11	MULT12	009		~Apr 2004	37	Hatch	
T00170	?	~Jun 2004	MULT11	MULT12	009		~Jun 2004	38	Hatch	
T00171	?	~Jun 2004	MULT11	MULT12	009		~Jun 2004	39	Hatch	
T00172	?	~Jun 2004	MULT11	MULT12	009		~Jun 2004	40	Hatch	
T00173	?	~Jun 2004	MULT11	MULT12	009		~Jun 2004	41	Hatch	
T00193	?	11 Apr 2004	MULT13	T00187	041		11 Apr 2004	SNZ001	Hatch	
T00215	?	17 Jan 2004	T00057	T00056	015		17 Jan 2004	PAN	Hatch	
T00216	?	~May 2004	T00115	T00116	033		~May 2004	1	Hatch	
T00217	?	~Jun 2004	T00115	T00116	033		~Jun 2004	2	Hatch	
T00218	?	26 Jun 2004	T00075	MULT16	031		26 Jun 2004	_____	Hatch	
T00219	?	8 Jul 2004	T00054	T00055	029		8 Jul 2004	_____	Hatch	
T00220	?	19 Jul 2004	T00039	T00041	005		19 Jul 2004	HZ0980	Hatch	
T00221	?	23 Jul 2004	T00094	T00095	020		23 Jul 2004	_____	Hatch	
							28 Sep 2004	_____	Death	
T00222	?	~Jul 2004	T00115	T00116	033		~Jul 2004	3	Hatch	
T00223	?	~Sep 2004	T00115	T00116	033		~Sep 2004	4	Hatch	
T00224	?	5 Nov 2004	T00054	T00055	029		5 Nov 2004	_____	Hatch	

DEATHS / TODESFÄLLE 2004

PANCAKE TORTOISE Studbook (Malacochersus tornieri)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studbk
T00074	M	12 Jul 1999	T00018	T00020	004 017	12 Jul 1999 13 May 2000 3 Oct 2004	990712	Hatch Loan to Death	
[Death by: Malicious Destruction <input type="checkbox"/> Unknown <input type="checkbox"/> Digestive <input type="checkbox"/> Trauma]									



T00099	M	????	WILD	WILD	UNKNOWN 032 013	???? ???? 9 Sep 1987 30 May 2004	NONE	Capture Transfer Transfer Death
[Death by: Old Age <input type="checkbox"/> Unknown <input type="checkbox"/> Unknown (after Autopsy)]								
T00221	?	23 Jul 2004	T00094	T00095	020	23 Jul 2004 28 Sep 2004	_____	Hatch Death
[Death by: Unknown means]								

TRANSFERS 2004

PANCAKE TORTOISE Studbook (Malacochersus tornieri)									
Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studbk#
T00090	M	30 Apr 2002	MULT3	T00063	011 045	30 Apr 2002 11 Sep 2004	MT0010 333	Hatch Loan to	
T00112	?	12 May 2003	MULT6	MULT7	013 035	12 May 2003 26 Jan 2004	_____	Hatch ltf Transfer	
T00113	?	6 Jul 2003	MULT6	MULT7	013 035	6 Jul 2003 26 Jan 2004	_____	Hatch ltf Transfer	
T00145	M	~ 2000	UNK	UNK	027 033 009 040	~ 2000 ~ Aug 2002 ~ 2003 20 Nov 2004	_____ 13 13	Hatch Transfer Transfer Transfer	
T00146	?	~ Dec 2001	MULT8	MULT9	009 040	~ Dec 2001 20 Nov 2004	14 14	Hatch Transfer	
T00148	?	~ Dec 2001	MULT8	MULT10	009 040	~ Dec 2001 20 Nov 2004	16 16	Hatch Transfer	
T00200	M	????	WILD	WILD	UNKNOWN 043 044	???? ???? 18 Jul 2004	NONE 582004	Capture Transfer Transfer	
T00201	F	????	WILD	WILD	UNKNOWN 043 044	???? ???? 18 Jul 2004	NONE 592004	Capture Transfer Transfer	
T00202	?	~Mar 2003	T00200	T00201	043 044	~Mar 2003 18 Jul 2004	_____ 2/2003	Hatch Transfer	
T00203	?	~Mar 2003	T00200	T00201	043 044	~Mar 2003 18 Jul 2004	_____ 3/2003	Hatch Transfer	
T00211	M	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002944	Capture Transfer Transfer	
T00212	F	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002941	Capture Transfer Transfer	
T00213	F	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002943	Capture Transfer Transfer	
T00214	F	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002935	Capture Transfer Transfer	

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CURRENT POPULATION / DERZEITIGER BESTAND 2004

PANCAKE TORTOISE Studbook (Malacochersus tornieri)
=====

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studbk
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001

T00058	F	9 May 1998	T00018	T00020	004 001	9 May 1998 28 May 1999	980509 VROUW5	Hatch Transfer
T00059	M	3 Jun 1998	T00018	T00019	004 001	3 Jun 1998 28 May 1999	980603 MAN59	Hatch Transfer

Totals: 1.1.0 (2)

005

T00034	F	~ 1980	WILD	WILD	UNKNOWN 007 005	???? ~ 1 Jan 1990 28 Aug 2002	NONE HZ0847	Capture Transfer Loan to
T00036	M	~ 1980	WILD	WILD	UNKNOWN 024 007 005	???? ~ 1 Apr 1992 7 May 1994 28 Aug 2002	NONE HZ0846	Capture Transfer Transfer Loan to
T00039	M	24 Aug 1994	T00017	T00013	005	24 Aug 1994	HZ0238	Hatch ESB T1300
T00041	F	2 Jun 1996	T00018	T00019	004 005	2 Jun 1996 2 May 1998	960602 HZ0544	Hatch ESB T1301
T00047	F	16 Jun 1997	T00018	T00019	004 AMERSFOOR 005	16 Jun 1997 26 Aug 1997 22 Dec 1999	970616 H209 HZ0675	Hatch Loan to Transfer
T00220	?	19 Jul 2004	T00039	T00041	005	19 Jul 2004	HZ0980	Hatch

Totals: 2.3.1 (6)

006

T00026	F	????	WILD	WILD	UNKNOWN 046 006	???? ???? 24 Oct 1989	NONE V-1	Capture Transfer Transfer
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Totals: 0.1.0 (1)

008

T00121	F	????	WILD	WILD	UNKNOWN 008	???? ~ Jan 1997	NONE MTF01	Capture Transfer
T00122	F	????	WILD	WILD	UNKNOWN 008	???? ~ Jan 1997	NONE MTF02	Capture Transfer
T00123	M	????	WILD	WILD	UNKNOWN 008	???? ~ Jan 1997	NONE MTM03	Capture Transfer
T00125	F	????	WILD	WILD	UNKNOWN 008	???? ~ Jan 1997	NONE MTF07	Capture Transfer
T00126	M	????	UNK	UNK	036 008	???? 28 Sep 1999	MTM06	Hatch Transfer
T00127	F	????	UNK	UNK	036 008	???? 18 Sep 1999	MTF08	Hatch Transfer
T00128	F	~ 1999	UNK	UNK	036 008	~ 1999 1 Oct 1999	MTF09	Hatch Transfer



PANCAKE TORTOISE Studbook (Malacochersus tornieri)									
Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studbk#
T00130	?	12 Apr 2003	T00126	T00127	008	12 Apr 2003	MTU02	Hatch	
T00131	?	30 May 2003	T00123	T00122	008	30 May 2003	MTU03	Hatch	
T00132	?	3 Mar 2004	T00123	T00121	008	3 Mar 2004	MTU04	Hatch	
T00204	M	????	UNK	UNK	036 008	???? 1 Nov 2001	MTM05	Hatch Transfer	
Totals: 3.5.3 (11)									

009

T00133	M	~ 1971	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 1	Capture Transfer
T00134	F	~ 1971	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 2	Capture Transfer
T00135	F	~ 1985	T00133	T00134	UNKNOWN 009	~ 1985 ~ 2001	_____ 3	Hatch Transfer
T00136	M	~ 1985	T00133	T00134	UNKNOWN 009	~ 1985 ~ 2001	_____ 4	Hatch Transfer
T00137	M	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 5	Capture Transfer
T00138	M	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 6	Capture Transfer
T00139	F	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 7	Capture Transfer
T00140	F	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 8	Capture Transfer
T00141	F	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 9	Capture Transfer
T00142	F	~ 1994	WILD	WILD	UNKNOWN 009	???? ~ 2001	NONE 10	Capture Transfer
T00143	F	~ 1998	UNK	UNK	038 009	~ 1998 ~ 2002	_____ 11	Hatch Transfer
T00144	M	~ 1987	UNK	UNK	027 037 009	~ 1987 ~ Aug 2002 ~ 2003	_____ 12	Hatch Transfer Transfer
T00147	F	~ Dec 2001	MULT8	MULT9	009	~ Dec 2001	15	Hatch
T00149	?	~ Aug 2002	MULT8	MULT10	009	~ Aug 2002	17	Hatch
T00150	?	~ Aug 2002	MULT8	MULT10	009	~ Aug 2002	18	Hatch
T00151	?	~ Sep 2002	MULT8	MULT10	009	~ Sep 2002	19	Hatch
T00152	?	~ Sep 2002	MULT8	MULT10	009	~ Sep 2002	20	Hatch
T00153	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	21	Hatch
T00154	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	22	Hatch
T00155	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	23	Hatch
T00156	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	24	Hatch
T00157	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	25	Hatch
T00158	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	26	Hatch



PANCAKE TORTOISE Studbook (Malacochersus tornieri)									
Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studbk
T00159	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	27	Hatch	
T00160	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	28	Hatch	
T00161	?	~Mar 2003	MULT11	MULT12	009	~Mar 2003	29	Hatch	
T00162	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	30	Hatch	
T00163	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	31	Hatch	
T00164	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	32	Hatch	
T00165	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	33	Hatch	
T00166	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	34	Hatch	
T00167	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	35	Hatch	
T00168	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	36	Hatch	
T00169	?	~Apr 2004	MULT11	MULT12	009	~Apr 2004	37	Hatch	
T00170	?	~Jun 2004	MULT11	MULT12	009	~Jun 2004	38	Hatch	
T00171	?	~Jun 2004	MULT11	MULT12	009	~Jun 2004	39	Hatch	
T00172	?	~Jun 2004	MULT11	MULT12	009	~Jun 2004	40	Hatch	
T00173	?	~Jun 2004	MULT11	MULT12	009	~Jun 2004	41	Hatch	
Totals: 5.8.25 (38)									

011

T00063	F	30 May 1994	MULT2	MULT1	010 011	30 May 1994 19 Feb 1995	MT0001	Hatch Transfer
T00064	F	28 Aug 1994	MULT2	MULT1	010 011	28 Aug 1994 19 Feb 1995	MT0002	Hatch Transfer
T00065	M	????	WILD	WILD	TANZANIA 025 011	???? ???? 17 Feb 1996	MT0003	Capture Transfer Transfer
T00066	F	????	WILD	WILD	TANZANIA 025 011	???? ???? 17 Feb 1996	MT0004	Capture Transfer Transfer
T00068	M	????	WILD	WILD	TANZANIA 011	???? 16 Jan 1998	MT0006	Capture Transfer
T00069	F	????	WILD	WILD	TANZANIA 011	???? 16 Jan 1998	MT0007	Capture Transfer
T00091	?	24 Apr 2003	MULT3	T00063	011	24 Apr 2003	MT0011	Hatch
Totals: 2.4.1 (7)								

013

T00045	F	6 May 1997	T00018	T00019	004 013	6 May 1997 25 Jun 1999	970506	Hatch Transfer
T00100	F	????	WILD	WILD	UNKNOWN 032 013	???? ???? 9 Sep 1987	_____	Capture Transfer Transfer
T00101	F	????	UNK	UNK	025 013	???? 7 Jan 1992	_____	Hatch Transfer
T00102	F	13 Oct 1996	MULT4	MULT5	013	13 Oct 1996	_____	Hatch



PANCAKE TORTOISE Studbook (Malacochelys) 10

PANCAKE TORTOISE Studbook (Malacochersus tornieri)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studbk
T00103	M	18 Apr 1997	MULT4	MULT5	013	18 Apr 1997	_____	Hatch	
T00104	M	11 Jun 1997	MULT4	MULT5	013	11 Jun 1997	_____	Hatch	
T00105	?	26 Jun 2000	MULT4	MULT5	013	26 Jun 2000	_____	Hatch	
T00106	?	7 Jun 2001	MULT6	MULT7	013	7 Jun 2001	_____	Hatch	
T00107	?	20 Sep 2001	MULT6	MULT7	013	20 Sep 2001	_____	Hatch	
T00108	?	4 Jan 2002	MULT6	MULT7	013	4 Jan 2002	_____	Hatch	
T00109	?	1 Apr 2002	MULT6	MULT7	013	1 Apr 2002	_____	Hatch	
T00110	?	28 Apr 2002	MULT6	MULT7	013	28 Apr 2002	_____	Hatch	
T00111	?	13 May 2002	MULT6	MULT7	013	13 May 2002	_____	Hatch	
Totals:	2.4.7	(13)							

014

T00042	F	2 Mar 1997	T00018	T00020	004 014	2 Mar 1997 11 Mar 1999	970302 VICTOR	Hatch Transfer
T00043	F	20 Mar 1997	T00018	T00019	004 014	20 Mar 1997 11 Mar 1999	970320 DYANA	Hatch Transfer
T00092	M	????	WILD	WILD	UNKNOWN 027 014	???? ????	NONE THOMAS	Capture Transfer Transfer
Total:	1	2	2	2	(2)			

015

T00056	F	6 Apr 1998	T00054	T00055	010 004 015	6 Apr 1998 22 Nov 1998 26 Oct 2000	980819 980406 GERTRU	Hatch Transfer Transfer
T00057	M	6 Apr 1998	T00018	T00020	004 015	6 Apr 1998 26 Oct 2000	980406 VICTOR	Hatch Transfer
T00060	F	13 May 1998	T00054	T00055	010 004 015	13 May 1998 22 Nov 1998 26 Oct 2000	_____ 980513 HELGA	Hatch Transfer Transfer
T00215	?	17 Jan 2004	T00057	T00056	015	17 Jan 2004	PAN	Hatch
Totals:	1.2.1	(4)						

016

T00096	M	30 Dec 2002	T00057	T00060	015 016	30 Dec 2002	Poffer	Hatch Transfer
T00097	M	25 Feb 2003	T00057	T00060	015 016	25 Feb 2003 5 Sep 2003	PB0082 PB0083	Hatch Transfer
T00098	M	25 Feb 2003	T00057	T00060	015 016	25 Feb 2003 5 Sep 2003	_____	Hatch Transfer
Totals:	3	0	0	(3)			PB0084	



ESF *Malacochersus tornieri* 2004

PANCAKE TORTOISE Studbook (Malacochersus tornieri)

Stud # | Sex | Hatch Date | Sire | Dam | Location | Date | Local ID | Event | ESB Studbk|

017

T00070	M	13 Apr 1999	T00018	T00020	004 017	13 Apr 1999 13 May 2000	990413 990413	Hatch Loan to
T00073	F	4 Jun 1999	T00018	T00020	004 017	4 Jun 1999 13 May 2000	990604 990604	Hatch Loan to
T00093	M	21 Jun 2000	UNK	_____	030 FRANKFURT 017	21 Jun 2000 21 Jun 2000 22 May 2001 13 Apr 2003	_____ E04448 E04448 Transfer	Hatch Ownership Transfer Transfer

Totals: 2.1.0 (3)

018

T00019	F	????	WILD	WILD	UNKNOWN 004 FRANKFURT 018	???? 18 Jan 1992 5 May 2001 5 May 2003	NONE 920118 E04438 _____	Capture Transfer Loan to Loan to	ESB T1219
T00082	M	17 May 1999	MULT3	T00063	011 018	17 May 1999 14 Nov 2000	MT0008 _____	Hatch Loan to	
T00182	M	????	WILD	WILD	UNKNOWN 018	???? ~ 2000	NONE _____	Capture Transfer	
T00183	F	????	WILD	WILD	UNKNOWN 018	???? ~ 2000	NONE _____	Capture Transfer	
T00185	M	????	WILD	WILD	UNKNOWN FRANKFURT 018	???? 26 Aug 2002 5 May 2003	NONE E07063 _____	Capture Transfer Loan to	
T00186	M	~ 2000	WILD	WILD	UNKNOWN FRANKFURT 018	???? 26 Aug 2002 5 May 2003	NONE E07067 _____	Capture Transfer Loan to	

Totals: 4.2.0 (6)

019

T00085	M	17 Jun 2001	T00018	T00020	004 019	17 Jun 2001 8 Jul 2001	010617 _____	Hatch Loan to
T00086	F	18 Jun 2001	T00018	T00020	004 019	18 Jun 2001 8 Jul 2001	010618 _____	Hatch Loan to
T00087	M	20 Jun 2001	T00018	T00019	004 019	20 Jun 2001 8 Jul 2001	010620 _____	Hatch Loan to
T00089	F	25 Feb 2001	MULT3	T00063	011 019	25 Feb 2001 13 Apr 2003	MT0009 _____	Hatch Loan to
Total	3	3	3	(1)				

Totals: 2.2.0 (4)

020

T00094	M	????	WILD	WILD	UNKNOWN 020	???? 8 Mar 2000	NONE M1	Capture Transfer
T00095	F	????	WILD	WILD	UNKNOWN 020	???? 8 Mar 2000	NONE F2	Capture Transfer

Totals: 1.1.0 (2)



ESF *Malacochersus tornieri* 2004

PANCAKE TORTOISE Studbook (Malacochersus tornieri)

Stud # | Sex | Hatch Date | Sire | Dam | Location | Date | Local ID | Event | ESB Studbk|

029

T00054	M	29 Mar 1989	WILD	MULT1	010 029	29 Mar 1989 1 Jun 2002	9854/8 _____	Hatch Transfer
T00055	F	????	WILD	WILD	UNKNOWN HOCH 010 029	???? ???? 18 Apr 1987 1 Jun 2002	NONE 3006/0 _____	Capture Transfer Transfer Transfer
T00114	?	24 Jun 2003	T00054	T00055	029	24 Jun 2003	_____	Hatch
T00219	?	8 Jul 2004	T00054	T00055	029	8 Jul 2004	_____	Hatch
T00224	?	5 Nov 2004	T00054	T00055	029	5 Nov 2004	_____	Hatch
Totals: 1.1.3 (5)								

031

T00075	M	~ 1988	WILD	WILD	UNKNOWN 012 031	???? 12 Feb 1992 13 Dec 2003	NONE MAXI _____	Capture Transfer Transfer
T00076	F	~ 1988	WILD	WILD	UNKNOWN 012 031	???? 17 Feb 1992 13 Dec 2003	NONE LP _____	Capture Transfer Transfer
T00077	F	~ 1993	WILD	WILD	UNKNOWN 012 031	???? 10 Feb 1997 13 Dec 2003	NONE NONAME _____	Capture Transfer Transfer
T00078	M	11 Jun 1996	T00075	T00076	012 031	11 Jun 1996 13 Dec 2003	FLACHM _____	Hatch Transfer
T00218	?	26 Jun 2004	T00075	MULT16	031	26 Jun 2004	_____	Hatch
Totals:	2.2.1	(5)						

033

T00115	M	????	WILD	WILD	UNKNOWN 027 033	???? ????	NONE	Capture Transfer Transfer
T00116	F	????	WILD	WILD	UNKNOWN 027 033	~ Aug 2002	MONNCH	Capture Transfer Transfer
T00117	?	~ Jan 2003	T00115	T00116	033	~ Jan 2003	SCHL.1	Hatch
T00120	?	~ Jun 2003	T00115	T00116	033	~ Jun 2003	SCHL.4	Hatch
T00216	?	~May 2004	T00115	T00116	033	~May 2004	1	Hatch
T00217	?	~Jun 2004	T00115	T00116	033	~Jun 2004	2	Hatch
T00222	?	~Jul 2004	T00115	T00116	033	~Jul 2004	3	Hatch
T00223	?	~Sep 2004	T00115	T00116	033	~Sep 2004	4	Hatch
Totals: 1.1.6 (8)								

034

T00118	?	~ Mar 2003	T00115	T00116	033 034	~ Mar 2003	SCHL.2	Hatch Transfer
T00119	?	~ Apr 2003	T00115	T00116	033 034	~ Apr 2003	SCHL.3	Hatch Transfer
Totals: 0.0.2 (2)								



PANCAKE TORTOISE Studbook (Malacochersus tornieri)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	ESB Studbk
--------	-----	------------	------	-----	----------	------	----------	-------	------------

043

T00194	M	????	WILD	WILD	UNKNOWN 043	???? 22 Aug 2000	NONE 1	Capture Transfer
T00195	M	????	WILD	WILD	UNKNOWN 043	???? 22 Aug 2000	NONE 2	Capture Transfer
T00196	F	????	WILD	WILD	UNKNOWN 043	???? 22 Aug 2000	NONE 3	Capture Transfer
T00197	F	????	WILD	WILD	UNKNOWN 043	???? 22 Aug 2000	NONE 4	Capture Transfer
T00198	F	????	WILD	WILD	UNKNOWN 043	???? 22 Aug 2000	NONE 5	Capture Transfer
T00199	F	~May 1999	T00200	T00201	043	~May 1999	6	Hatch

Totals: 2.4.0 (6)

044

T00200	M	????	WILD	WILD	UNKNOWN 043 044	???? 18 Jul 2004	NONE 582004	Capture Transfer Transfer
T00201	F	????	WILD	WILD	UNKNOWN 043 044	???? 18 Jul 2004	NONE 592004	Capture Transfer Transfer
T00202	?	~Mar 2003	T00200	T00201	043 044	~Mar 2003 18 Jul 2004	_____ 2/2003	Hatch Transfer
T00203	?	~Mar 2003	T00200	T00201	043 044	~Mar 2003 18 Jul 2004	_____ 3/2003	Hatch Transfer

Totals: 1.1.2 (4)

045

T00090	M	30 Apr 2002	MULT3	T00063	011 045	30 Apr 2002 11 Sep 2004	MT0010 333	Hatch Loan to
Totals: 1.0.0 (1)								

049

T00211	M	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002944	Capture Transfer Transfer
T00212	F	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002941	Capture Transfer Transfer
T00213	F	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002943	Capture Transfer Transfer
T00214	F	????	WILD	WILD	UNKNOWN 048 049	???? 6 Apr 2001 3 Dec 2004	NONE 002935	Capture Transfer Transfer

Totals: 1.3.0 (4)

**TOTAL: 44.56.55 (155 Specimens)
In 25 locations**



POPULATION SIZE / POPULATIONSGRÖSSE 2004

OVERVIEW / ÜBERSICHT

Location / Halter	01.01.2004	Arrival / Ankunft	Hatch / Schlupf	Death / Todesfall	Departure / Abgabe	31.12.2004
001	1.1					1.1
*005	2.3		0.0.1			2.3.1
*006	0.1					0.1
*008	3.5.2		0.0.1			3.5.3
*009	6.8.15		0.0.12		1.0.2	5.8.25
*011	2.4.2				1.0	2.4.1
*013	3.4.9			1.0	0.0.2	2.4.7
014	1.2					1.2
*015	1.2		0.0.1			1.2.1
016	3.0					3.0
017	3.1			1.0		2.1
018	4.2					4.2
019	2.2					2.2
*020	1.1		0.0.1	0.0.1		1.1
*029	1.1.1		0.0.2			1.1.3
*031	2.2		0.0.1			2.2.1
*033	1.1.2		0.0.4			1.1.6
034	0.0.2					0.0.2
035 NR		0.0.2				???
*039	2.5					2.5
040		1.0.2				1.0.2
*041	3.3		0.0.1			3.3.1
*043	3.5.2				1.1.2	2.4
044		1.1.2				1.1.2
045		1.0				1.0
049		1.3				1.3
TOTAL	30.32.18 in 17 Loc.	4.4.4	0.0.24 in 9 Loc.	2.0.1	3.1.6	44.56.155 in 25 Loc.
<i>New Registrations / Neue Meldungen</i>	<i>14.21.17 4 Locations /Halter</i>					

Explanations: -Locations with * have successfully bred.
 -Locations with NR did not reply on the questionnaire 2004.
-Italic typing refer to locations and specimens registered newly in 2004.

Erklärungen: -Halter mit * haben oder hatten Zuchterfolge aufzuweisen.
 -Halter mit NR haben auf den Fragebogen 2004 nicht reagiert.
-Kursive Schrift kennzeichnen Halter und Tiere, die in 2004 neu gemeldet wurden.



LOCATIONS / HALTER

For privacy reasons the names and the addresses of the studbook participants are replaced by anonymous code except for zoos and dealers. In total 49 location codes have been distributed so far. However not all of these locations also participated in the studbook, but some of them were previous keepers of tortoises that were registered by their new owners in the studbook or they received specimens from the studbook without participating in the studbook programme. Such locations are called passive locations and marked with P in the following list, whereas participants of the studbook are called active locations and are marked with A. Locations marked with (A) were active studbook participants who stopped keeping this species at their own location (but may be are still owner of specimens loaned to another location). Locations marked with LTF are locations which must be considered as lost-to-follow-up because they either do not respond at all or the present address is unknown to the studbook keeper. Locations with an USA are located in the United States of America and do not participate in the European Studbook. Of the 49 locations in total 24 are from Germany, 18 from the Netherlands, 2 from Belgium, 1 from Austria, 1 from the Czech Republic, 1 from France, 1 from United Kingdom and 1 from USA. Of the 25 active locations that are still keeping the species 14 are from Germany, 8 from the Netherlands, 1 from Belgium, 1 from the Czech Republic and 1 from France.

Aus Gründen der Diskretion sind die Namen und Adressen der Zuchtbuchteilnehmer durch anonyme Zahlencodes ersetzt worden. Dies trifft jedoch nicht für Zoologische Gärten und Tierhändler zu. Insgesamt wurden 49 dieser Codes vergeben. Davon nehmen jedoch nicht alle am Zuchtbuch teil. Manche Codes bezeichnen Privathalter, die nicht teilnehmen, von denen aber ein Zuchtbuchteilnehmer ein oder mehrere Tiere erworben hat oder es handelt sich um Personen, die von einem Zuchtbuchteilnehmer Tiere erhalten haben ohne aber selbst am Zuchtbuch teilzunehmen. Solche Halter werden als passive Halter bezeichnet und sind in der unten aufgeführten Liste mit P gekennzeichnet. Zuchtbuchteilnehmer hingegen werden als aktive Halter mit einem A gekennzeichnet. Wenn das A in Klammern gesetzt wird (A), so handelt es sich um einen aktiven Halter, der diese Art jedoch selbst nicht mehr in seinem Bestand pflegt (u.U. aber immer noch Besitzer von Tieren ist, die bei einem anderen Halter eingestellt sind). Halter, die mit einem LTF gekennzeichnet sind, gelten als verschollen, da sie entweder nicht antworten oder ihre Adresse dem Zuchtbuchführer unbekannt ist. Ein USA hinter dem Code bedeutet, dass es sich um Privathalter in den Vereinigten Staaten von Amerika handelt, die nicht am Europäischen Zuchtbuch partizipieren.

Von den 49 Haltern insgesamt befinden sich 24 in Deutschland, 18 in den Niederlanden, 2 in Belgien, und je 1 in Frankreich, Österreich, United Kingdom, Tschechien und USA. Von den 25 aktiven Haltern, die diese Art selber pflegen, befinden sich 14 in Deutschland, 8 in den Niederlanden und je 1 in Belgien, Frankreich und Tschechien.

001: A	002: LTF	003: LTF	004: (A)	005: A
006: A	007: (A)	008: A	009: A	010: (A)
011: A	012: (A)	013: A	014: A	015: A
016: A	017: A	018: A	019: A	020: A
021: P	022: P	023: P	024: P	025: P
026: USA	027: P	028: P	029: A	030: P
031: A	032: P	033: A	034: A	035: P
036: P	037: P	038: P	039: A	040: A
041: A	042: P	043: A	044: A	045: A
046: P	047: P	048: P	049: A	



The following participants agreed that their name is mentioned on a keepers list in the studbook. Contact to other participants can be procured by the studbook keeper.

Folgende Zuchtbuchteilnehmer haben sich einverstanden erklärt, daß ihr Name auf einer Teilnehmerliste im Zuchtbuch schriftlich publiziert wird. Kontakt zu weiteren Zuchtbuchteilnehmern kann durch den Zuchtbuchführer vermittelt werden.

Pieter Bulsing, Andreas Gräf, Mark Klerks, Reptilium Terrarien- und Wüstenzoo Landau (Thomas Wilms), Victor Loehr, Matthias Mähn, Manfred Schmalz, Fabian Schmidt, Karsten Schultz & Korinna Simon, Franz Josef Striegl, Richard Struijk, Frank Van Loon, Natasa Velenska, Rob Verhoeks, Bernd Wolff, Birgit Zessin, Henk Zwartepoorte

POPULATION DEVELOPMENT 2004

Currently 44.56.55 (155) pancake tortoises are kept in 25 locations. Thus, the collection number nearly doubled since 2003 (increase of 96.2 %) and the number of locations increased considerably as well (47.1 %). Main reason for this increase in the studbook size was the registration of new specimens: Of the 81 in 2004 registered specimens, 52 were newly registered (64.2 %), 24 hatched (29.6 %), 1 was not reported in 2003 (1.3 %) and 4 specimens arrived from a location outside the studbook (4.9 %). Nobody stopped keeping the species, and 8 new locations received and registered their specimens.

81 newly registered specimen contrast 5 specimens that are not in the studbook any longer. Three specimens died in 2004. A very old male died at 013, a relatively young male died at 017 surprisingly due to a prolaps and a hatchling did not survive at 020. Two young specimens were transferred from 013 to a location outside the studbook (035). In fact location 013 tried to convince 035 to join the studbook. Although there is personal contact between the studbook keeper and 035, 035 never found time to register his specimens. Thus, these specimens need to be classified as lost-to-follow-up at the moment. However there is good hope that 035 will join the studbook in 2005.

All other transfers were conducted between studbook participants. 1.1.2 specimens were transferred from 043 to the new location 044, and another new location, 045, received a two year old male from 011 and is still looking for an unrelated female. The new location 040 received three specimens from 009, that still keeps nearly one forth of the studbook collection. Additionally 049 received 1.3 wildcaught specimens from 048, a location outside of the studbook.

In 2004 there was not only a low death rate but also good breeding results: 24 specimens hatched at 9 locations. Half of the specimens hatched at the newly registered location 009. 020, 031 and 041 had their first breeding success, 005 the first one since ten years. 008, 015, 029 and 033 confirmed the breeding success of the previous year. The following table gives a short overview of the breeding results of the present studbook participants in the past nine years:

1996:	4 specimens	in 3 locations
1997:	10 specimens	in 3 locations
1998:	9 specimens	in 3 locations
1999:	10 specimens	in 6 locations
2000:	5 specimens	in 3 locations
2001:	10 specimens	in 4 locations
2002:	11 specimens	in 5 locations
2003:	24 specimens	in 8 locations
2004:	24 specimens	in 9 locations



In total 17 different studbook participants had breeding success, of which 14 still keep this species. The good breeding result from 2003 equalized this year, although several locations that bred regularly in the previous years (011, 013, 039 and 043) had no hatching success in 2004. This indicates that even higher numbers could be reached in the future. Furthermore 014 had eggs in 2004 and 044 received breeding proven specimens, so that an increase in hatching success can be expected for the next year. Generally it is very remarkable that 66.5 % of the registered specimens alive already hatched in captivity.

BESTANDSENTWICKLUNG 2003

Zurzeit werden 44,56,55 (155) Spaltenschildkröten von 25 Haltern gepflegt. Seit 2003 hat sich damit die Anzahl registrierter Tiere beinahe verdoppelt (Anstieg 96,2 %) und auch die Anzahl Halter ist deutlich angestiegen (47,1 %). Hauptgrund für diesen Anstieg sind Neuanmeldungen. Im Jahre 2004 wurden 81 Tiere neu registriert. 52 davon wurden von neuen Haltern angemeldet (64,2 %), 24 schlüpften in diesem Jahr (29,6 %), 1 Tier wurde im Jahr 2003 nicht gemeldet (1,3 %) und 4 Tiere wurden im Jahre 2004 von einem Halter außerhalb des Zuchtbuches zu einem Zuchtbuch-Teilnehmer transferiert (4,9 %). Da niemand die Haltung dieser Art beendete, erhöhte sich die Anzahl der Halter um 8 auf 25.

Den 81 neu registrierten Tieren stehen fünf Individuen gegenüber, die aus der Zuchtbuch-Population ausschieden. Drei Tiere starben im Berichtsjahr. Ein sehr altes Männchen starb bei Halter 013, ein relativ junges Männchen starb bei Halter 017 überraschend an einem Darmvorfall, und ein Schlüpfling überlebte bei Halter 020 überlebte die ersten Monate nicht. Zwei Jungtiere wurden von Halter 013 an einen Halter abgegeben, der sich bisher nicht am Zuchtbuch beteiligt (035). Halter 013 versuchte allerdings Halter 035 von einer Zuchtbuch-Teilnahme zu überzeugen. Obwohl der Zuchtbuchführer und der Halter 035 in persönlichem Kontakt stehen, fand Halter 035 bisher keine Zeit, seine Tiere im Zuchtbuch registrieren zu lassen. Daher müssen diese Tiere zurzeit als lost-to-follow-up eingestuft werden. Es besteht jedoch Hoffnung, dass Halter 035 im Jahre 2005 am Zuchtbuch teilnehmen wird.

Alle weiteren Transfers werden zwischen Zuchtbuch-Teilnehmern getätigt. Halter 043 gab 1,1,2 Individuen an den neuen Halter 044 ab. Ein weiterer neuer Halter erhielt ein zweijähriges Nachzuchtmännchen von 011, und ist weiterhin auf der Suche nach einem unverwandten Weibchen. Der neue Halter 040 erhielt drei Individuen von Halter 009, der weiterhin knapp einen Viertel der Zuchtbuch-Population hält. Zusätzlich erhielt der neue Halter 049 1,3 Wildfangtiere von 048, einem Halter, der nicht am Zuchtbuch teilnimmt.

Nicht nur die Todesrate war in 2004 relativ gering, sondern es gab auch gute Zuchterfolge: 24 Individuen schlüpften bei 9 Haltern. Die Hälfte davon schlüpfte beim neuen Zuchtbuch-Teilnehmer 009. Bei den Haltern 020, 031 und 041 gab es den ersten Schlupferfolg, bei Halter 005 den ersten Schlupferfolg seit zehn Jahren. Die Halter 008, 015, 029 und 033 bestätigten die Zuchterfolge des Vorjahres. Folgende Tabelle gibt einen Überblick über die Zuchterfolge der gegenwärtigen Halter während den letzten neun Jahren:

1996:	4 Individuen	bei 3 Haltern
1997:	10 Individuen	bei 3 Haltern
1998:	9 Individuen	bei 3 Haltern
1999:	10 Individuen	bei 6 Haltern
2000:	5 Individuen	bei 3 Haltern
2001:	10 Individuen	bei 4 Haltern
2002:	11 Individuen	bei 5 Haltern
2003:	24 Individuen	bei 8 Haltern
2004:	24 Individuen	bei 9 Haltern



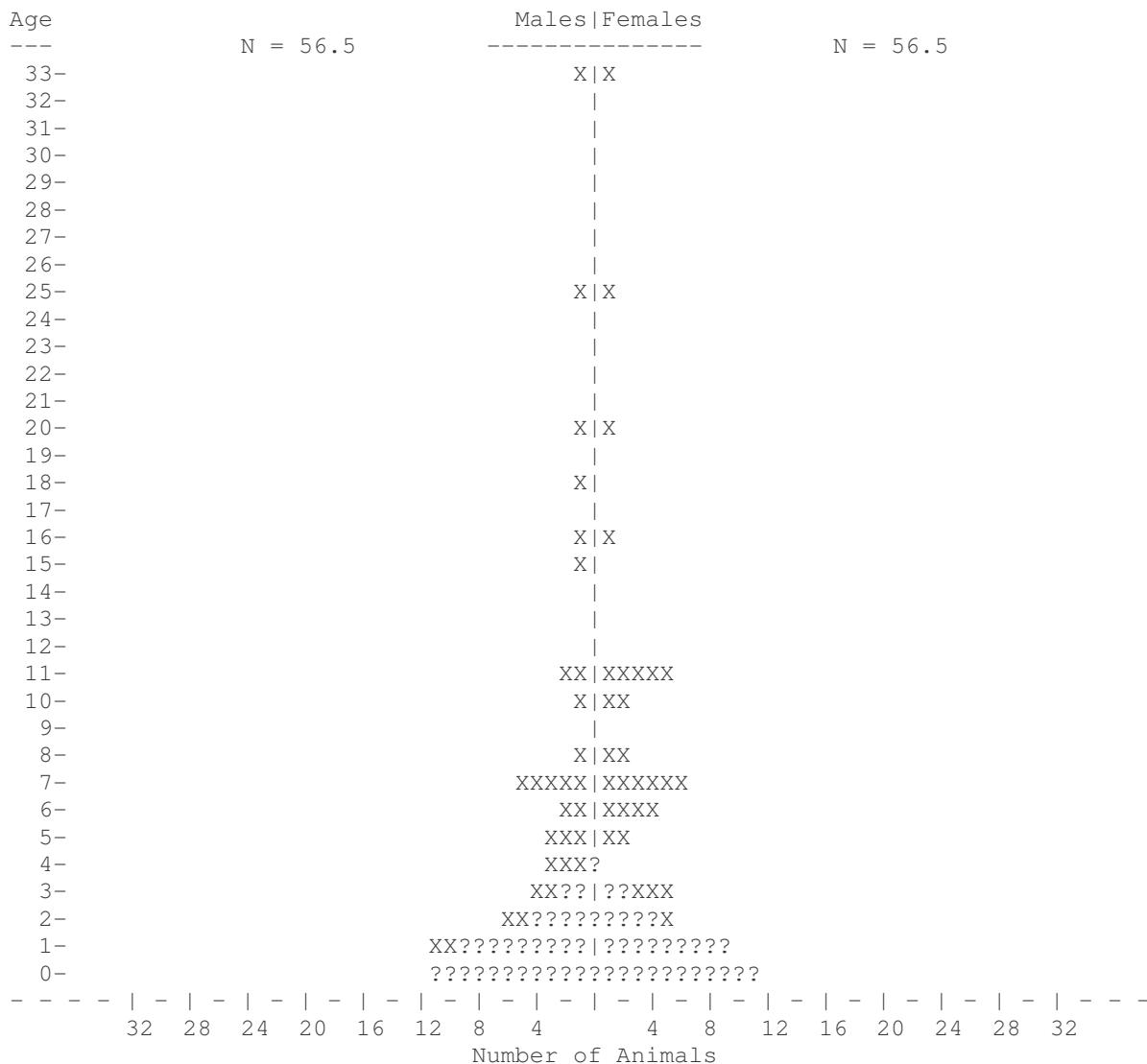
Insgesamt konnten bisher 17 verschiedene Zuchtbuch-Teilnehmer Zuchterfolge vorweisen. Vierzehn davon sind zurzeit aktive Zuchtbuch-Teilnehmer. Die guten Zuchtreultate von 2003 wurden in diesem Jahr bestätigt, obwohl mehrere Halter, die in den letzten Jahren regelmäßig züchteten, in diesem Jahr keinen Schlupferfolg hatten (011, 013, 039 und 043). Dies deutet aber auch daraufhin, daß künftig noch bessere Zuchtreultate erreicht werden könnten. Halter 014 hatte zudem in 2004 Eiablagen und Halter 044 erhielt zuchterprobte Tiere, so daß ein Anstieg der Zuchterfolge für nächstes Jahr erwartet werden kann. Generell ist es außerordentlich bemerkenswert, daß 66,5 % der registrierten Tiere des derzeitigen Bestandes bereits in Menschenobhut geschlüpft ist.

ANALYSIS / ANALYSE

AGE PYRAMID / ALTERSPYRAMIDE

Restricted to: PANCAKE TORTOISE Studbook
 Dates: As of 31/12/2004, Status: Living on 31 Dec 2004

Taxon Name: MALACOCHERSUS TORNIERI





X >>> Specimens of known sex...
 ? >>> Specimens of unknown sex...
 15 Male Specimens of unknown age... (not on the graph)
 27 Female Specimens of unknown age... (not on the graph)

CENSUS REPORT

Census Report

Restricted to: PANCAKE TORTOISE Studbook

Dates: As of 31/12/2004

Year as of 31 Dec	Specimen Counts*	Annual	Observed Lambda
-----	-----	-----	Geometric Mean
2004	44.56.55 (155)	1.16	1.16 (last 2 yrs)
2003	45.55.34 (134)	1.17	1.16 (last 3 yrs)
2002	45.57.13 (115)	1.16	1.16 (last 4 yrs)
2001	38.55.6 (99)	1.18	1.17 (last 5 yrs)
2000	33.45.6 (84)	1.14	1.16 (last 6 yrs)
1999	26.42.6 (74)	1.09	1.15 (last 7 yrs)
1998	22.41.5 (68)	1.17	1.15 (last 8 yrs)
1997	21.36.1 (58)	1.32	1.17 (last 9 yrs)
1996	17.27.0 (44)	1.16	1.17 (last 10 yrs)
1995	15.23.0 (38)	0.97	1.15 (last 11 yrs)
1994	15.24.0 (39)	0.95	1.13 (last 12 yrs)
1993	17.24.0 (41)	0.95	1.11 (last 13 yrs)
1992	19.23.1 (43)	1.48	1.14 (last 14 yrs)
1991	13.15.1 (29)	1.53	1.16 (last 15 yrs)
1990	8.10.1 (19)	1.12	1.16 (last 16 yrs)
1989	8.8.1 (17)	1.42	1.17 (last 17 yrs)
1988	5.7.0 (12)	1.20	1.17 (last 18 yrs)
1987	5.5.0 (10)	5.00	1.27 (last 19 yrs)
1986	1.1.0 (2)	1.00	1.26 (last 20 yrs)
1985	1.1.0 (2)	1.00	1.24 (last 20 yrs)

Note: Lambda values include Imports and Exports...

* This does not necessarily represent the number of registered specimens at that time

REPRODUCTION DATA / REPRODUKTIONSDATEN

Reproductive Parameters Report

PANCAKE TORTOISE Studbook

Taxon Name: MALACOCHERSUS TORNIERI

Incubation period set to 140 days, ~4.7 months.

DAM DATA: 20 reported dams, with 16.15.36 (67) offspring
 (not including 11 offspring of unknown dams)

Youngest dams at first clutch:
 T00060 at age 4Y, 7M, 19D
 T00063 at age 4Y, 11M, 18D
 T00201 at age ~5Y, 3M
 T00056 at age 5Y, 9M, 13D
 T00116 at age ~6Y, 0M
 T00077 at age 6Y, 3M, 9D



Oldest dams at first clutch:

T00055 at age 14Y, 11M, 22D
 T00020 at age 13Y, 11M, 4D
 T00174 at age 13Y, 5M, 7D
 T00134 at age ~13Y
 T00121 at age 12Y, 2M, 4D
 T00122 at age 11Y, 4M, 30D

Oldest dams to have clutched:

T00055 at age 21Y, 6M, 25D
 T00055 at age 21Y, 2M, 26D
 T00055 at age 20Y, 2M, 11D
 T00020 at age 18Y, 2M, 22D
 T00020 at age 18Y, 2M, 21D
 T00020 at age 18Y, 1M, 8D

Median age of females at first reproduction: 8Y, 8M, 21D

Mean age of females at first reproduction: 9Y, 0M, 14D

Median age of females at reproduction: 11Y, 2M, 12D

Mean age of females at reproduction: 11Y, 7M, 2D

Shortest interclutch intervals

Dam	Interval	Offspring
-----	----------	-----------

T00020	21 days between T00044 & T00046	- <90% of incubation
T00116	30 days between T00217 & T00222	- <90% of incubation
T00127	30 days between T00129 & T00130	- <90% of incubation
T00116	31 days between T00216 & T00217	- <90% of incubation
T00020	33 days between T00057 & T00058	- <90% of incubation
T00055	37 days between T00056 & T00060	- <90% of incubation
T00055	37 days between T00071 & T00072	- <90% of incubation
T00020	38 days between T00073 & T00074	- <90% of incubation
T00020	38 days between T00083 & T00084	- <90% of incubation
T00019	41 days between T00045 & T00047	- <90% of incubation
T00020	44 days between T00088 & T00085	- <90% of incubation
T00116	45 days between T00118 & T00119	- <90% of incubation

Dams with most offspring:

T00020	14
T00019	9
T00116	8
T00055	8
T00063	4

Hatch seasonality (clutches)

January:	2	3%
February:	3	5%
March:	9	15%
April:	10	16%
May:	11	18%
June:	12	20%
July:	8	13%
August:	2	3%
September:	1	2%
October:	0	0%
November:	1	2%
December:	2	3%

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



Rearing:	Viability:					
	Lived > 1 year	Died < 1 year	Died < 30 days			
Unknown (67)	63 94%	2 3%	2 3%			
	63 94%	2 3%	2 3%			

Clutch size	N
1	59 94%
2	4 6%

63 total clutches, mean size is 1.1

SIRE DATA: 14 reported sires, with 14.14.35 (63) offspring

Youngest sires at first reproduction:

(male's age when dam conceived)

T00057 at age 4Y,4M,7D

T00200 at age ~4Y,11M

T00115 at age ~5Y,0M

T00025 at age 6Y,7M,11D

T00017 at age 7Y,4M,13D

T00075 at age 7Y,11M,12D

Oldest sires at first reproduction:

T00175 at age 13Y,0M,19D

T00133 at age ~12Y

T00123 at age 11Y,0M,12D

T00039 at age 9Y,6M,10D

T00018 at age 9Y,4M,13D

T00094 at age 9Y,0M,0D

Oldest sires to have reproduced:

T00075 at age 15Y,11M,29D

T00054 at age 15Y,2M,24D

T00175 at age 15Y,1M,22D

T00054 at age 14Y,10M,26D

T00018 at age 14Y,8M,2D

T00018 at age 14Y,7M,30D

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

Mean age of males at first reproduction: 8Y,5M,13D

Median age of males at reproduction: 10Y,6M,17D

Mean age of males at reproduction: 10Y,1M,25D

(all ages are at dam conception)

Sires with most offspring:

T00018 23

T00115 8

T00054 8

T00075 4

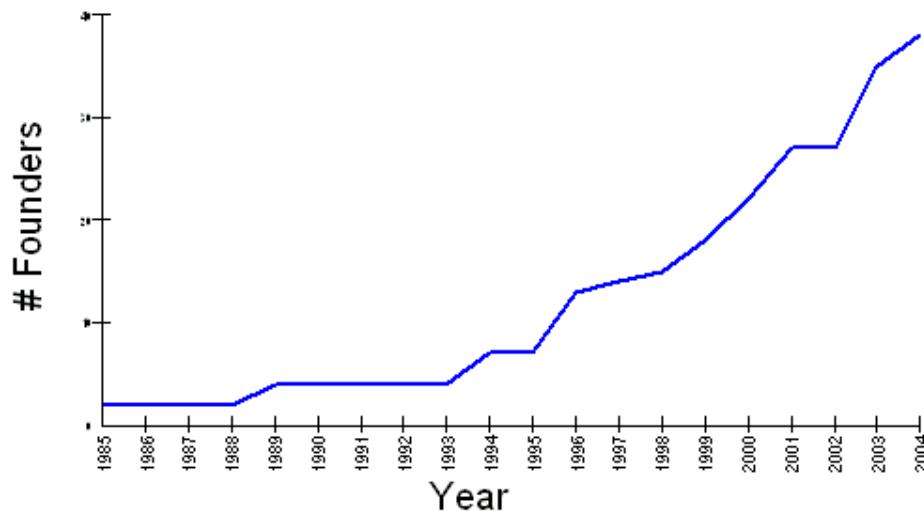
T00057 4

T00200 3



FOUNDER REPRESENTATION

Number of Founders vs. Time



St#	Sex	Age	Repres.	Contr.	AR	PR	Descendants
U	F	D	0,0054	0,5000	0,5000	0,5000	1,00
MULT10	U	M	D	0,0269	2,5000	0,9755	0,9755
MULT11	U	F	D	0,1129	10,5000	1,0000	1,0000
MULT12	U	M	D	0,1129	10,5000	1,0000	21,00
MULT13	U	F	D	0,0054	0,5000	0,5000	1,00
MULT16	U	M	D	0,0054	0,5000	0,5000	1,00
MULT1	U	M	D	0,0591	5,5000	0,9715	0,9715
MULT2	U	F	D	0,0350	3,2500	0,9305	0,9305
MULT3	U	F	D	0,0215	2,0000	0,9355	0,9355
MULT4	U	F	D	0,0215	2,0000	0,9460	0,9460
MULT5	U	M	D	0,0215	2,0000	0,9315	0,9315
MULT6	U	F	D	0,0323	3,0000	0,9825	0,9825
MULT7	U	M	D	0,0323	3,0000	0,9835	0,9835
MULT8	U	F	D	0,0376	3,5000	0,9910	0,9910
MULT9	U	M	D	0,0108	1,0000	0,7425	0,7425
P	U	M	D	0,0054	0,5000	0,5000	1,00
PMULT1	U	M	D	0,0242	2,2500	0,5000	0,5000
T00013	F	D	0,0081	0,7500	0,5000	0,5000	2,00
T00017	M	D	0,0081	0,7500	0,5000	0,5000	2,00
T00018	M	D	0,0833	7,7500	1,0000	1,0000	18,00
T00019	F	-1	0,0350	3,2500	0,9880	1,0000	7,00
T00020	F	D	0,0484	4,5000	0,9940	0,9940	11,00
T00026	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00034	F	25	0,0000	0,0000	0,0000	1,0000	0,00
T00036	M	25	0,0000	0,0000	0,0000	1,0000	0,00
T00055	F	-1	0,0376	3,5000	0,9690	1,0000	9,00
T00065	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00066	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00068	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00069	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00075	M	16	0,0108	1,0000	0,7470	1,0000	2,00
T00076	F	17	0,0054	0,5000	0,5000	1,0000	1,00
T00077	F	12	0,0000	0,0000	0,0000	1,0000	0,00



St#	Sex	Age	Repres.	Contr.	AR	PR	Descendants
T00092	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00094	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00095	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00100	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00101U	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00115	M	-1	0,0430	4,0000	0,9970	1,0000	8,00
T00116	F	-1	0,0430	4,0000	0,9950	1,0000	8,00
T00121	F	-1	0,0054	0,5000	0,5000	1,0000	1,00
T00122	F	-1	0,0054	0,5000	0,5000	1,0000	1,00
T00123	M	-1	0,0108	1,0000	0,7550	1,0000	2,00
T00125	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00126U	M	-1	0,0054	0,5000	0,5000	1,0000	1,00
T00127U	F	-1	0,0054	0,5000	0,5000	1,0000	1,00
T00128U	F	6	0,0000	0,0000	0,0000	1,0000	0,00
T00133	M	33	0,0108	1,0000	0,7490	1,0000	2,00
T00134	F	33	0,0108	1,0000	0,7575	1,0000	2,00
T00137	M	11	0,0000	0,0000	0,0000	1,0000	0,00
T00138	M	11	0,0000	0,0000	0,0000	1,0000	0,00
T00139	F	11	0,0000	0,0000	0,0000	1,0000	0,00
T00140	F	11	0,0000	0,0000	0,0000	1,0000	0,00
T00141	F	11	0,0000	0,0000	0,0000	1,0000	0,00
T00142	F	11	0,0000	0,0000	0,0000	1,0000	0,00
T00143U	F	7	0,0000	0,0000	0,0000	1,0000	0,00
T00144U	M	18	0,0000	0,0000	0,0000	1,0000	0,00
T00145U	M	4	0,0000	0,0000	0,0000	1,0000	0,00
T00174	F	-1	0,0108	1,0000	0,7360	1,0000	2,00
T00175	M	D	0,0108	1,0000	0,7525	0,7525	2,00
T00176	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00177	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00178	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00179	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00182	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00183	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00185	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00186	M	5	0,0000	0,0000	0,0000	1,0000	0,00
T00188U	M	7	0,0000	0,0000	0,0000	1,0000	0,00
T00190U	M	7	0,0000	0,0000	0,0000	1,0000	0,00
T00191	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00192	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00194	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00195	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00196	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00197	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00198	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00200	M	-1	0,0161	1,5000	0,8940	1,0000	3,00
T00201	F	-1	0,0161	1,5000	0,8815	1,0000	3,00
T00204U	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00211	M	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00212	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00213	F	-1	0,0000	0,0000	0,0000	1,0000	0,00
T00214	F	-1	0,0000	0,0000	0,0000	1,0000	0,00

Explanations: Age: D = Dead

Age: -1 = Unknown

Repres. = Representation

Contr. = Contribution

AR = Allele Retention

PR = Potential Representation



GENETICS

Project: Mt

Report compiled under Population Management 2000, version 1.210

Date to be used for calculations: 07.04.2005

Studbook information:

Data exported on: 7 Apr 2005 from Sparks v1.52

Data compiled by: Fabian Schmidt

Contact info: Frankfurt University 06181-989359

Data current thru: 31 Dec 2004

Scope of data: European Studbook Foundation

Founders = 38

Living Descendants = 93,00

Gene Diversity (GD) = 0,9691

GV = 0,9674

Founder Genome Equivalents (fge) = 16,19

Founder Genomes Surviving = 29,57

Mean Inbreeding Coefficient = 0,0000

Potential Founders = 46 additional

Percent Known = 100,0

Potential GD = 0,9937

MK = 0,0309

Potential fge = 79,63

Potential Founder Genomes Surv. = 79,63

Current N = 155

Ordered by Mean Kinship (MK)

Studb #	Sex	Sire	Dam	Age	Location	Vx	%Known	F	MK	KV	GU-All	GU-Des.	PLost	FOKE	Desc.
T00101	F	UNK	UNK	0	013	1,02	0,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00204	M	UNK	UNK	0	008	1,02	0,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00026	F	WILD	WILD	0	006	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00065	M	WILD	WILD	0	011	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00066	F	WILD	WILD	0	011	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00068	M	WILD	WILD	0	011	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00069	F	WILD	WILD	0	011	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00092	M	WILD	WILD	0	014	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00094	M	WILD	WILD	0	020	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00095	F	WILD	WILD	0	020	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00100	F	WILD	WILD	0	013	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00125	F	WILD	WILD	0	008	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00176	F	WILD	WILD	0	039	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00177	M	WILD	WILD	0	039	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00178	F	WILD	WILD	0	039	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00179	F	WILD	WILD	0	039	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00182	M	WILD	WILD	0	018	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00183	F	WILD	WILD	0	018	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00185	M	WILD	WILD	0	018	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00191	F	WILD	WILD	0	041	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00192	F	WILD	WILD	0	041	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00194	M	WILD	WILD	0	043	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00195	M	WILD	WILD	0	043	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00196	F	WILD	WILD	0	043	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00197	F	WILD	WILD	0	043	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00198	F	WILD	WILD	0	043	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00211	M	WILD	WILD	0	049	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00212	F	WILD	WILD	0	049	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00213	F	WILD	WILD	0	049	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00214	F	WILD	WILD	0	049	1,02	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2430	0,00	0
T00034	F	WILD	WILD	25	005	0,00	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	1,0000	0,00	0
T00036	M	WILD	WILD	25	005	0,00	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	1,0000	0,00	0
T00144	M	UNK	UNK	18	009	0,00	0,0	0,0000	0,0000	0,0000	1,0000	-1,0000	1,0000	0,00	0
T00077	F	WILD	WILD	12	031	0,35	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,6188	0,00	0
T00137	M	WILD	WILD	11	009	0,63	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,4155	0,00	0
T00138	M	WILD	WILD	11	009	0,63	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,4155	0,00	0
T00139	F	WILD	WILD	11	009	0,49	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,5048	0,00	0
T00140	F	WILD	WILD	11	009	0,49	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,5048	0,00	0
T00141	F	WILD	WILD	11	009	0,49	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,5048	0,00	0
T00142	F	WILD	WILD	11	009	0,49	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,5048	0,00	0
T00143	F	UNK	UNK	7	009	0,72	0,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,3672	0,00	0
T00188	M	UNK	UNK	7	041	1,10	0,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2183	0,00	0
T00190	M	UNK	UNK	7	041	1,10	0,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2183	0,00	0
T00128	F	UNK	UNK	6	008	0,80	0,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,3320	0,00	0



Studb #	Sex	Sire	Dam	Age	Location	Vx	%Known	F	MK	KV	GU-All	GU-Des.	PLost	FOKE	Desc.
T00186	M	WILD	WILD	5	018	1,07	100,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2271	0,00	0
T00145	M	UNK	UNK	4	040	1,13	0,0	0,0000	0,0000	0,0000	1,0000	-1,0000	0,2098	0,00	0
T00126	M	UNK	UNK	0	008	1,02	0,0	0,0000	0,0027	0,0029	0,5000	-1,0000	0,1513	1,00	1
T00127	F	UNK	UNK	0	008	1,02	0,0	0,0000	0,0027	0,0029	0,5000	-1,0000	0,1513	1,00	1
T00121	F	WILD	WILD	0	008	1,02	100,0	0,0000	0,0027	0,0029	0,5000	-1,0000	0,1513	1,00	1
T00122	F	WILD	WILD	0	008	1,02	100,0	0,0000	0,0027	0,0029	0,5000	-1,0000	0,1525	1,00	1
T00076	F	WILD	WILD	17	031	0,00	100,0	0,0000	0,0027	0,0032	0,5000	-1,0000	0,6097	1,00	1
T00123	M	WILD	WILD	0	008	1,02	100,0	0,0000	0,0054	0,0058	0,2450	-1,0000	0,0943	2,00	2
T00174	F	WILD	WILD	0	039	1,02	100,0	0,0000	0,0054	0,0060	0,2640	-1,0000	0,0953	2,00	2
T00133	M	WILD	WILD	33	009	0,00	100,0	0,0000	0,0054	0,0000	0,2510	-1,0000	1,0000	2,00	2
T00134	F	WILD	WILD	33	009	0,00	100,0	0,0000	0,0054	0,0000	0,2425	-1,0000	1,0000	2,00	2
T00075	M	WILD	WILD	16	031	0,12	100,0	0,0000	0,0054	0,0061	0,2530	-1,0000	0,3230	2,00	2
T00093	M	P_____	_____	5	017	1,07	0,0	0,0000	0,0054	0,0062	1,0000	1,0000	0,2271	2,00	0
T00130	U	T00126	T00127	1	008	1,01	0,0	0,0000	0,0054	0,0059	0,0000	1,0000	0,0597	2,00	0
T00078	M	T00075	T00076	8	031	1,09	100,0	0,0000	0,0067	0,0078	0,0000	0,7470	0,1672	2,50	0
T00131	U	T00123	T00122	2	008	0,99	100,0	0,0000	0,0067	0,0072	0,0000	0,7550	0,0505	2,50	0
T00132	U	T00123	T00121	1	008	1,01	100,0	0,0000	0,0067	0,0073	0,0000	0,7550	0,0488	2,50	0
T00218	U	T00075	MULT16	1	031	1,01	50,0	0,0000	0,0067	0,0074	0,5000	0,7470	0,1856	2,50	0
T00200	M	WILD	WILD	0	044	1,02	100,0	0,0000	0,0081	0,0080	0,1060	-1,0000	0,0607	3,00	3
T00201	F	WILD	WILD	0	044	1,02	100,0	0,0000	0,0081	0,0080	0,1185	-1,0000	0,0625	3,00	3
T00135	F	T00133	T00134	20	009	0,00	100,0	0,0000	0,0081	0,0000	0,5065	1,0000	3,00	0	
T00136	M	T00133	T00134	20	009	0,00	100,0	0,0000	0,0081	0,0000	0,5065	1,0000	3,00	0	
T00039	M	T00017	T00013	11	005	0,63	100,0	0,0000	0,0081	0,0066	0,5000	0,5000	0,2587	3,00	1
T00180	M	T00175	T00174	5	039	1,07	100,0	0,0000	0,0081	0,0091	0,2525	0,4885	0,0882	3,00	0
T00181	F	T00175	T00174	3	039	0,99	100,0	0,0000	0,0081	0,0088	0,2525	0,4885	0,0959	3,00	0
T00199	F	T00200	T00201	6	043	0,80	100,0	0,0000	0,0108	0,0103	0,0000	0,2480	0,0320	4,00	0
T00202	U	T00200	T00201	2	044	0,99	100,0	0,0000	0,0108	0,0109	0,0000	0,2800	0,0275	4,00	0
T00203	U	T00200	T00201	2	044	0,99	100,0	0,0000	0,0108	0,0109	0,0000	0,2475	0,0262	4,00	0
T00102	F	MULT4	MULT5	8	013	0,68	0,0	0,0000	0,0134	0,0128	0,1075	0,1075	0,0868	5,00	0
T00103	M	MULT4	MULT5	8	013	1,09	0,0	0,0000	0,0134	0,0140	0,1400	0,1400	0,0640	5,00	0
T00104	M	MULT4	MULT5	7	013	1,10	0,0	0,0000	0,0134	0,0140	0,1145	0,1145	0,0586	5,00	0
T00105	U	MULT4	MULT5	5	013	0,86	0,0	0,0000	0,0134	0,0133	0,1415	0,1415	0,0816	5,00	0
T00146	U	MULT8	MULT9	4	040	1,01	0,0	0,0000	0,0148	0,0159	0,2500	0,2500	0,0833	5,50	0
T00147	F	MULT8	MULT9	4	009	1,01	0,0	0,0000	0,0148	0,0159	0,2485	0,2485	0,0832	5,50	0
T00019	F	WILD	WILD	0	018	1,02	100,0	0,0000	0,0175	0,0154	0,0120	-1,0000	0,0190	6,50	6
T00193	U	MULT13	T00187	0	041	1,02	0,0	0,0000	0,0178	0,0163	0,5000	0,5000	0,1305	6,63	0
T00055	F	WILD	WILD	0	029	1,02	100,0	0,0000	0,0188	0,0190	0,0310	-1,0000	0,0195	7,00	5
T00106	U	MULT6	MULT7	4	013	1,01	0,0	0,0000	0,0188	0,0202	0,0260	0,0260	0,0229	7,00	0
T00107	U	MULT6	MULT7	4	013	1,01	0,0	0,0000	0,0188	0,0202	0,0335	0,0335	0,0242	7,00	0
T00148	U	MULT8	MULT10	4	040	1,01	0,0	0,0000	0,0188	0,0202	0,0385	0,0385	0,0265	7,00	0
T00108	U	MULT6	MULT7	3	013	0,99	0,0	0,0000	0,0188	0,0202	0,0255	0,0255	0,0216	7,00	0
T00109	U	MULT6	MULT7	3	013	0,99	0,0	0,0000	0,0188	0,0202	0,0330	0,0330	0,0251	7,00	0
T00110	U	MULT6	MULT7	3	013	0,99	0,0	0,0000	0,0188	0,0202	0,0295	0,0295	0,0241	7,00	0
T00111	U	MULT6	MULT7	3	013	0,99	0,0	0,0000	0,0188	0,0202	0,0350	0,0350	0,0251	7,00	0
T00149	U	MULT8	MULT10	3	009	0,99	0,0	0,0000	0,0188	0,0202	0,0385	0,0385	0,0267	7,00	0
T00150	U	MULT8	MULT10	3	009	0,99	0,0	0,0000	0,0188	0,0202	0,0390	0,0390	0,0271	7,00	0
T00151	U	MULT8	MULT10	3	009	0,99	0,0	0,0000	0,0188	0,0202	0,0375	0,0375	0,0265	7,00	0
T00152	U	MULT8	MULT10	3	009	0,99	0,0	0,0000	0,0188	0,0202	0,0395	0,0395	0,0277	7,00	0
T00115	M	WILD	WILD	0	033	1,02	100,0	0,0000	0,0215	0,0231	0,0030	-1,0000	0,0057	8,00	8
T00116	F	WILD	WILD	0	033	1,02	100,0	0,0000	0,0215	0,0231	0,0050	-1,0000	0,0057	8,00	8
T00220	U	T00039	T00041	1	005	1,01	100,0	0,0000	0,0235	0,0217	0,0000	0,0000	0,0521	8,75	0
T00082	M	MULT3	T00063	6	018	1,06	0,0	0,0000	0,0239	0,0230	0,0625	0,0625	0,0305	8,88	0
T00089	F	MULT3	T00063	4	019	1,01	0,0	0,0000	0,0239	0,0228	0,0590	0,0590	0,0312	8,88	0
T00090	M	MULT3	T00063	3	045	1,10	0,0	0,0000	0,0239	0,0231	0,0650	0,0650	0,0296	8,88	0
T00091	U	MULT3	T00063	2	011	0,99	0,0	0,0000	0,0239	0,0228	0,0630	0,0630	0,0333	8,88	0
T00117	U	T00115	T00116	2	033	0,99	100,0	0,0000	0,0242	0,0260	0,0000	0,0070	0,0022	9,00	0
T00118	U	T00115	T00116	2	034	0,99	100,0	0,0000	0,0242	0,0260	0,0000	0,0085	0,0022	9,00	0
T00119	U	T00115	T00116	2	034	0,99	100,0	0,0000	0,0242	0,0260	0,0000	0,0080	0,0022	9,00	0
T00120	U	T00115	T00116	2	033	0,99	100,0	0,0000	0,0242	0,0260	0,0000	0,0100	0,0024	9,00	0
T00216	U	T00115	T00116	1	033	1,01	100,0	0,0000	0,0242	0,0261	0,0000	0,0075	0,0022	9,00	0
T00217	U	T00115	T00116	1	033	1,01	100,0	0,0000	0,0242	0,0261	0,0000	0,0065	0,0022	9,00	0
T00222	U	T00115	T00116	1	033	1,01	100,0	0,0000	0,0242	0,0261	0,0000	0,0085	0,0023	9,00	0
T00223	U	T00115	T00116	1	033	1,01	100,0	0,0000	0,0242	0,0261	0,0000	0,0100	0,0023	9,00	0
T00064	F	MULT2	MULT1	11	011	0,49	0,0	0,0000	0,0262	0,0218	0,0915	0,0915	0,0786	9,75	0
T00189	M	MULT2	MULT1	8	041	1,09	0,0	0,0000	0,0262	0,0236	0,0980	0,0980	0,0431	9,75	0
T00187	F	MULT2	MULT1	8	041	0,68	0,0	0,0000	0,0276	0,0238	0,0425	0,0425	0,0450	10,25	1
T00114	U	T00054	T00055	2	029	0,99	75,0	0,0000	0,0286	0,0260	0,0000	0,0325	0,0117	10,62	0
T00219	U	T00054	T00055	1	029	1,01	75,0	0,0000	0,0286	0,0261	0,0000	0,0350	0,0111	10,62	0
T00224	U	T00054	T00055	1	029	1,01	75,0	0,0000	0,0286	0,0261	0,0000	0,0305	0,0116	10,62	0
T00056	F	T00054	T00055	7	015	0,72	75,0	0,0000	0,0299	0,0268	0,0000	0,0095	0,0111	11,13	1
T00063	F	MULT2	MULT1	11	011	0,49	0,0	0,0000	0,0316	0,0278	0,0050	0,0050	0,0163	11,75	4
T00043	F	T00018	T00019	8	014	0,68	100,0	0,0000	0,0323	0,0298	0,0005	0,0205	0,0069	12,00	0
T00045	F	T00018	T00019	8	013	0,68	100,0	0,0000	0,0323	0,029					



Studb #	Sex	Sire	Dam	Age	Location	Vx	%Known	F	MK	KV	GU-All	GU-Des.	PLost	FOKE	Desc.
T00087	M	T00018	T00019	4	019	1,13	100,0	0,0000	0,0323	0,0311	0,0000	0,0190	0,0042	12,00	0
T00060	F	T00054	T00055	7	015	0,72	75,0	0,0000	0,0326	0,0299	0,0000	0,0045	0,0042	12,12	3
T00054	M	PMULT1	MULT1	16	029	0,12	50,0	0,0000	0,0329	0,0274	0,0210	0,0210	0,0425	12,25	5
T00041	F	T00018	T00019	9	005	0,54	100,0	0,0000	0,0336	0,0309	0,0000	0,0085	0,0054	12,50	1
T00042	F	T00018	T00020	8	014	0,68	100,0	0,0000	0,0356	0,0345	0,0105	0,0105	0,0130	13,25	0
T00058	F	T00018	T00020	7	001	0,72	100,0	0,0000	0,0356	0,0347	0,0085	0,0085	0,0115	13,25	0
T00070	M	T00018	T00020	6	017	1,06	100,0	0,0000	0,0356	0,0356	0,0085	0,0085	0,0074	13,25	0
T00073	F	T00018	T00020	6	017	0,80	100,0	0,0000	0,0356	0,0349	0,0080	0,0080	0,0096	13,25	0
T00085	M	T00018	T00020	4	019	1,13	100,0	0,0000	0,0356	0,0358	0,0065	0,0065	0,0070	13,25	0
T00086	F	T00018	T00020	4	019	1,01	100,0	0,0000	0,0356	0,0355	0,0085	0,0085	0,0088	13,25	0
T00215	U	T00057	T00056	1	015	1,01	87,5	0,0000	0,0381	0,0372	0,0000	0,0000	0,0023	14,19	0
T00096	M	T00057	T00060	2	016	1,07	87,5	0,0000	0,0395	0,0390	0,0000	0,0000	0,0010	14,69	0
T00097	M	T00057	T00060	2	016	1,07	87,5	0,0000	0,0395	0,0390	0,0000	0,0000	0,0011	14,69	0
T00098	M	T00057	T00060	2	016	1,07	87,5	0,0000	0,0395	0,0390	0,0000	0,0000	0,0011	14,69	0
T00057	M	T00018	T00020	7	015	1,10	100,0	0,0000	0,0410	0,0418	0,0000	0,0000	0,0011	15,25	4
T00153	U	MULT11	MULT12	2	009	0,99	0,0	0,0000	0,0591	0,0637	0,0000	0,0000	0,0000	22,00	0
T00154	U	MULT11	MULT12	2	009	0,99	0,0	0,0000	0,0591	0,0637	0,0000	0,0000	0,0000	22,00	0
T00155	U	MULT11	MULT12	2	009	0,99	0,0	0,0000	0,0591	0,0637	0,0000	0,0000	0,0000	22,00	0
T00156	U	MULT11	MULT12	2	009	0,99	0,0	0,0000	0,0591	0,0637	0,0000	0,0000	0,0000	22,00	0
T00157	U	MULT11	MULT12	2	009	0,99	0,0	0,0000	0,0591	0,0637	0,0000	0,0000	0,0000	22,00	0
T00158	U	MULT11	MULT12	2	009	0,99	0,0	0,0000	0,0591	0,0637	0,0000	0,0000	0,0000	22,00	0
T00159	U	MULT11	MULT12	2	009	0,99	0,0	0,0000	0,0591	0,0637	0,0000	0,0000	0,0000	22,00	0
T00160	U	MULT11	MULT12	2	009	0,99	0,0	0,0000	0,0591	0,0637	0,0000	0,0000	0,0000	22,00	0
T00161	U	MULT11	MULT12	2	009	0,99	0,0	0,0000	0,0591	0,0637	0,0000	0,0000	0,0000	22,00	0
T00162	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0000	22,00	0
T00163	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0000	22,00	0
T00164	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0000	22,00	0
T00165	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0001	22,00	0
T00166	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0001	22,00	0
T00167	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0000	22,00	0
T00168	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0000	22,00	0
T00169	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0000	22,00	0
T00170	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0000	22,00	0
T00171	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0000	22,00	0
T00172	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0000	22,00	0
T00173	U	MULT11	MULT12	1	009	1,01	0,0	0,0000	0,0591	0,0638	0,0000	0,0000	0,0000	22,00	0

Explanations: Vx = Reproductive Value
 F = Inbreeding Coefficient
 MK = Mean Kinship
 KV = Kinship Value
 GU = Genome Uniqueness
 PLost = Probability of allele loss
 FOKE = First-order kin equivalents
 Desc. = Number of descendants



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