

# Studbook breeding programme

## *Pyxis arachnoides* (Malagasy spider tortoise)



Photo by Frank van Loon

## Annual Report 2013

Frank van Loon, studbook keeper



European  
Studbook  
Foundation

KvK nr. 41136106

[www.studbooks.eu](http://www.studbooks.eu)

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### **1. Introduction**

This report is an update of the annual report of the Studbook Breeding Programme *Pyxis arachnoides* published in 2012. The programme aims to form a genetically healthy, reproducing captive population, to study and to gather and distribute as much information about *Pyxis arachnoides* as possible. In order to keep the studbook manageable (in terms of number of tortoises and contacts between participants and coordinator), it has been decided that the studbook will operate exclusively in Europe. Although *Pyxis a. arachnoides* appears to be present in Europe in sufficiently large numbers for a viable studbook, the situation for the other two subspecies, *brygooi* and *oblonga*, is somewhat different. Although both subspecies are bred in captivity, the total number of living tortoises in the studbook is too low to form a genetical healthy captive population. In the (near) future it might be advisable to establish closer contacts outside Europe to import tortoises of both subspecies (*brygooi* and *oblonga*).

### **2. Current living studbook population**

**Table I:** Current living studbook population *Pyxis arachnoides* per location as registered in the studbook.

MULT1 is Sire 26 or 27

MULT2 is Dam 104 or 105

MULT3 is Sire 161, 162, 164 or 165

MULT4 is Dam 163 or 177

MULT5 is Sire 119 or 123

MULT6 is Sire 209, 211 or 212

MULT7 is Dam 208, 210 or 217

**a) *Pyxis arachnoides arachnoides***

There are currently 120 live animals (49.28.43) at 22 locations

**Location: A03**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
138	M	09 Jun 2006	34	36	ROTTERDAM A03	09 Jun 2006 08 Jul 2012	705480 HZ12/20	Hatch Loan
278	F	29 Apr 2008	WILD	WILD	TOURNAI	29 Apr 2008	_____	Hatch
					ROTTERDAM A03	15 Mar 2012 08 Jul 2012	Z12056 HZ12/20	Loan to Loan to

Totals : 1.1.0 (2)

**Location: A07**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
2	F	16 Nov 1996	UNK1	UNK2	A07	16 Nov 1996	_____	Hatch
					A02	22 Nov 1998	961116	Loan to
					A22	24 Feb 2001	_____	Loan to
					A07	2012	_____	Transfer
96	F	????	WILD	WILD	A22	27 Dec 2004	_____	Transfer
					A07	2012	_____	Transfer
97	M	????	WILD	WILD	A22	27 Dec 2004	_____	Transfer
					A07	2012	_____	Transfer

Totals : 1.2.0 (3)

**Location: A08**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
18	M	????	WILD	WILD	A08	~ Jan 1995	_____	Transfer
					ROTTERDAM	4 Sep 2002	704790	Loan to
					A08	17 Nov 2004	_____	Transfer
26	M	????	WILD	WILD	A11	~ 1985	_____	Transfer
					A02	29 Dec 1999	I	Loan to
					A08	18 Feb 2001	_____	Loan to
68	?	14 Jun 2001	MULT1	29	A02	14 Jun 2001	IV-2	Hatch
					A11	17 Feb 2002	_____	Transfer
					A08	2010	_____	Transfer
79	M	06 May 2002	MULT1	29	A08	06 May 2002	_____	Hatch
					A10	29 Sep 2003	_____	Transfer
					A08	12 Oct 2008	_____	Transfer
84	M	08 Jun 2002	MULT1	29	A08	08 Jun 2002	_____	Hatch
					A10	29 Sep 2003	_____	Transfer
					A08	12 Oct 2008	_____	Transfer
91	M	31 Aug 2003	MULT1	29	A08	31 Aug 2003	_____	Hatch
					A11	22 Jan 2005	_____	Transfer
					A08	30 Dec 2010	_____	Transfer

95	F	04 Jul 2004	MULT1	29	A08 A11 A08	04 Jul 2004 22 Jan 2005 30 Dec 2010	_____	Hatch Transfer Transfer
113	M	15 Apr 2005	23	24	A08	15 Apr 2005	_____	Hatch
117	?	04 Sep 2005	MULT1	29	A08 A11 A08	04 Sep 2005 03 Jan 2009 2010	_____	Hatch Transfer Transfer
118	M	15 Sep 2005	23	24	A08	15 Sep 2005	_____	Hatch
131	?	27 Apr 2006	MULT1	29	A08	27 Apr 2006	_____	Hatch
132	?	19 Apr 2006	23	24	A08 A11 A08	19 Apr 2006 03 Jan 2009 30 Dec 2010	_____	Hatch Transfer Transfer
133	?	07 Jun 2006	23	24	A08	07 Jun 2006	_____	Hatch
134	?	09 Aug 2006	MULT1	29	A08 A11 A08	09 Aug 2006 03 Jan 2009 30 Dec 2010	_____	Hatch Transfer Transfer
136	?	06 Sep 2006	MULT1	29	A08	06 Sep 2006	_____	Hatch
137	F	12 Apr 2006	34	36	ROTTERDAM A08	12 Apr 2006 14 Sep 2011	705433 _____	Hatch Transfer
141	?	23 Feb 2007	23	24	A08	23 Feb 2007	_____	Hatch
143	F	29 Sep 2007	34	36	ROTTERDAM A08	29 Sep 2007 14 Sep 2011	705842 _____	Hatch Transfer
Totals: 7.3.8 (18)								

**Location: A10**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
23	M	????	WILD	WILD	A05 A10 A08 A10	???? 28 Jun 1999 29 Sep 2003 2012	_____ Paam01 _____ Paam01	Transfer Transfer Loan to Transfer
24	F	????	WILD	WILD	A05 A10 A08 A10	???? 28 Jun 1999 29 Sep 2003 2012	_____ Paaf01 _____ Paaf01	Transfer Transfer Loan to Transfer
74	M	2000	UNK3	UNK4	A10	10 Oct 2001	Paam02	Transfer
76	M	2000	UNK3	UNK4	A10	10 Oct 2001	_____	Transfer
112	F	2006	WILD	WILD	A41 A10	2006 2010	_____ Paaf02	Transfer Transfer
114	M	09 Jun 2005	MULT1	29	A08 A10	09 Jun 2005 12 Okt 2008	_____ _____	Hatch Transfer
116	M	06 Jul 2005	23	24	A08 A10	06 Jul 2005 12 Okt 2008	_____ _____	Hatch Transfer
135	M	27 Aug 2006	23	24	A08 A10	27 Aug 2006 12 Okt 2008	_____ _____	Hatch Transfer
140	M	2001	WILD	WILD	A41 A10	21 Feb 2007 2010	Niger _____	Transfer Transfer
260	?	22 May 2013	74	112	A10	22 May 2013	Paau01	Hatch
Totals: 7.2.1 (10)								

**Location: A12**

Stud#	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
119	M	~1995	WILD	WILD	A12	~2001	Pyxi 5	Transfer
120	F	~1995	WILD	WILD	A12	~2001	W1	Transfer
121	F	~1995	WILD	WILD	A12	~2001	W2	Transfer
122	F	~1995	WILD	WILD	A12	~2001	W3	Transfer
123	M	~1995	WILD	WILD	A12	~2001	M4	Transfer
124	M	~1995	WILD	WILD	A12	~2001	M3	Transfer
125	M	~1997	WILD	WILD	A12	~2001	M2	Transfer
126	?	~1999	WILD	WILD	A12	~2001	U1	Transfer
127	M	~1999	WILD	WILD	A12	~2001	M1	Transfer
128	M	~1999	WILD	WILD	A12	~2001	M6	Transfer
129	?	~1999	WILD	WILD	A12	~2001	U2	Transfer
130	?	~2004	MULT5	115	A12	~2004	NZ1	Hatch

Totals: 6.3.3 (12)

**Location: A13**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
48	M	21 Oct 1999	34	36	ROTTERDAM A13	21 Oct 1999 27 Aug 2010	704297 _____	Hatch Transfer

Totals: 1.0.0 (1)

**Location: A21**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
146	?	26 Dec 2006	UNK14	UNK15	A26 A21	26 Dec 2006 08 Dec 2009	_____ Bara	Hatch Transfer
147	?	26 Dec 2006	UNK14	UNK16	A26 A21	26 Dec 2006 08 Dec 2009	_____ Merina	Hatch Transfer
149	?	25 Dec 2007	UNK14	UNK15	A26 A21	25 Dec 2007 08 Dec 2009	_____ Vazimba	Hatch Transfer
203	?	29 Aug 2008	UNK1	UNK2	A07 A21	29 Aug 2008 31 May 2011	_____ Tanala	Hatch Transfer

Totals: 0.0.4 (4)

**Location: A23**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
58	M	????	WILD	WILD	A23	30 Jul 2000	DONALD	Transfer
59	F	????	WILD	WILD	A23	30 Jul 2000	DAISY	Transfer
60	F	????	WILD	WILD	A23	30 Jul 2000	EUSEBI	Transfer
61	F	????	WILD	WILD	A23	30 Jul 2000	PAULA	Transfer
62	?	1 Aug 1998	UNK1	UNK2	A07 A23	1 Aug 1998 16 Sep 1999	_____ TIC	Hatch Transfer

65	?	1 Aug 1998	UNK6	UNK7	A24 A23	1 Aug 1998 1 Jul 1999	_____ TRIC	Hatch Transfer
66	?	1 Aug 1998	UNK6	UNK7	A24 A23	1 Aug 1998 1 Jul 1999	_____ TRAC	Hatch Transfer
69	M	????	WILD	WILD	A23	5 Jul 2001	PLUTO	Transfer
98	?	04 May 2004	58	60	A23	5 May 2004	KNIRPS	Hatch

Totals: 2.3.4 (9)

**Location: A27**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
94	M	17 Jun 2004	MULT1	29	A08 A11 A08 A27	17 JUN 2004 22 Jan 2005 30 Dec 2010 09 Jun 2011	_____ _____ _____ _____	Hatch Transfer Transfer Transfer
155	F	????	WILD	WILD	A33 A25 A27	???? 2006 2012	_____ _____ _____	Transfer Transfer Transfer
156	M	????	UNK1	UNK2	A07 A25 A27	2002 2009 2012	_____ _____ _____	Hatch Transfer Transfer
187	M	????	WILD	WILD	A27	30 May 2009	__49518	Transfer

Totals: 3.1.0. (4)

**Location: A30**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
208	F	1998	WILD	WILD	A30	23 Dec 2003	__3002	Transfer
209	M	1998	WILD	WILD	A30	23 Dec 2003	__3004	Transfer
210	F	1994	WILD	WILD	A30	18 Dec 2004	__2966	Transfer
211	M	1996	WILD	WILD	A30	18 Dec 2004	__2967	Transfer
212	M	1996	WILD	WILD	A30	18 Dec 2004	__2968	Transfer
214	?	25 Jun 2008	MULT6	MULT7	A30	25 Jun 2008	__2136	Hatch
215	?	16 Jul 2009	MULT6	MULT7	A30	16 Jul 2009	__2730	Hatch
216	?	24 Jun 2009	MULT6	MULT7	A30	24 Jun 2009	__2729	Hatch
217	F	1998	WILD	WILD	A30	23 Dec 2003	__3003	Transfer
237	?	14 Sep 2011	MULT6	MULT7	A30	14 Sep 2011	_____	Hatch
271	?	2013	MULT6	MULT7	A30	2013	_____	Hatch
272	?	2013	MULT6	MULT7	A30	2013	_____	Hatch
273	?	2013	MULT6	MULT7	A30	2013	_____	Hatch
274	?	2013	MULT6	MULT7	A30	2013	_____	Hatch

Totals: 3.3.8 (14)

**Location: A32**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
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4	M	????	WILD	WILD	A04 A32	17 May 1999 25 May 2002	ULI ULI	Transfer Loan to
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Totals: 1.0.0 (1)

**Location: A34**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
192	?	26 Jul 2008	WILD	WILD	A07 A34	26 Jul 2008 23 Jun 2009	_____	Hatch Transfer
193	?	14 Jul 2007	MULT6	MULT7	A34	22 Jul 2008	Bakoly	Transfer
194	?	16 Jul 2007	MULT6	MULT7	A34	22 Jul 2008	Kintana	Transfer

Totals: 0.0.3. (3)

**Location: A35**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
115	M	07 Jul 2005	MULT1	29	A08 A35	07 Jul 2005 Mar 2013	_____	Hatch Transfer
263	?	04 Jun 2012	WILD	WILD	A07 A35	04 Jun 2012 09 Jun 2013	_____	Hatch Transfer
264	?	16 Sep 2011	WILD	WILD	A07 A35	16 Sep 2011 09 Jun 2013	_____	Hatch Transfer
270	F	~2000	WILD	WILD	A35	11 Mar 2013	_____	Transfer

Totals: 1.0.2. (3)

**Location: A36**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
67	F	15 Mar 2001	MULT1	29	A02 A36	15 Mar 2001 24 Feb 2002	_____	Hatch Transfer
82	M	~ Jan 2000	UNK8	UNK9	A32 A36	~ Jan 2000 15 Aug 2002	_____	Hatch Transfer
101	?	~2000	UNK8	UNK9	A32 A36	~2000 10 Dec 2004	_____	Hatch Transfer

Totals: 1.1.1 (3)

**Location: A37**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
80	M	26 Jul 2002	MULT1	29	A08 A37	26 Jul 2002 26 Mar 2011	_____	Hatch Transfer
90	M	08 Aug 2003	MULT1	29	A08 A37	08 Aug 2003 26 Mar 2011	_____	Hatch Transfer

Totals : 2.0.0. (2)

**Location: A42**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
41	F	28 Aug 1999	UNK1	UNK2	A07 A19	28 Aug 1999 1 Mar 2000	_____	Hatch Transfer

					A42	1 Dec 2003	P007	Transfer
107	F	09 Aug 2001	UNK1	UNK2	A07 A42	09 Aug 2001 23 Jul 2002	<u>          </u> P001	Hatch Transfer
108	M	25 Jul 2001	UNK1	UNK2	A07 A42	25 Jul 2001 23 Jul 2002	<u>          </u> P002	Hatch Transfer
109	F	09 Aug 2001	UNK1	UNK2	A07 A42	09 Aug 2001 23 Jul 2002	<u>          </u> P003	Hatch Transfer
110	M	1965	WILD	WILD	A42	28 Sep 2002	P004	Transfer
111	F	~feb 2002	WILD	WILD	A42	16 Jan 2005	P009	Transfer

Totals: 2.4.0 (6)

**Location: A43**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
93	M	09 Jun 2004	MULT1	29	A08 A43	09 Jun 2004 26 Mar 2011	<u>          </u> <u>          </u>	Hatch Transfer

Totals : 1.0.0. (1)

**Location: A46**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
213	?	22 Jun 2008	MULT6	MULT7	A30 A46	22 Jun 2008 10 Mar 2012	<u>2135</u> <u>          </u>	Hatch Transfer

Totals : 0.0.1. (1)

**Location: A53**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
266	?	?	MULT6	MULT7	A30 A53	?	<u>          </u> <u>          </u>	Hatch Transfer
267	?	?	MULT6	MULT7	A30 A53	?	<u>          </u> <u>          </u>	Hatch Transfer

Totals : 0.0.2 (2)

**Location: A54**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
261	M	20 Nov 2006	WILD	WILD	A55 A54	20 Nov 2006 04 Jan 2012	<u>          </u> <u>          </u>	Hatch Transfer
262	M	08 Mar 2003	WILD	WILD	A55 A54	08 Mar 2003 04 Jan 2012	<u>          </u> <u>          </u>	Hatch Transfer

Totals : 2.0.0 (2)

**Location: A56**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
1	M	9 Sep 1996	UNK1	UNK2	A07 A02 A22 A56	9 Sep 1996 22 Nov 1998 24 Feb 2001 2012	<u>          </u> 960909 <u>          </u> <u>          </u>	Hatch Loan to Loan to Transfer
3	M	16 Sep 1997	UNK1	UNK2	A07 A02 A22	16 Sep 1997 22 Nov 1998 24 Feb 2001	<u>          </u> 970916 <u>          </u>	Hatch Loan to Loan to



Totals : 2.0.0 (2) A56 2012 \_\_\_\_\_ Transfer

**Location: ROTTERDAM**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
27	M	????	WILD	WILD	A11 A02 A08 ROTTERDAM	~ 1985 29 Dec 1999 18 Feb 2001 29 Dec 2012	_____ II _____ _____	Transfer Loan to Loan to Transfer
34	M	1990	WILD	WILD	A15 ROTTERDAM	1990 7 Jun 1997	_____ 703791	Hatch Transfer
35	M	1990	WILD	WILD	A15 ROTTERDAM	1990 7 Jun 1997	_____ 703792	Hatch Transfer
36	F	1990	WILD	WILD	A15 ROTTERDAM	1990 7 Jun 1997	_____ 703793	Hatch Transfer
37	F	1990	WILD	WILD	A15 ROTTERDAM	1990 7 Jun 1997	_____ 703794	Hatch Transfer
38	M	????	WILD	WILD	VLISSINGE ROTTERDAM	12 Jul 1987 9 Jul 1997	_____ 703825	Transfer Transfer
71	F	????	WILD	WILD	LONDON RP ROTTERDAM A08 ROTTERDAM	???? 23 Dec 2001 17 Nov 2004 15 Jun 2009	_____ 704581 _____ _____	Transfer Transfer Loan to Transfer
72	F	????	WILD	WILD	LONDON RP ROTTERDAM	???? 23 Dec 2001	_____ 704582	Transfer Transfer
102	F	02 Jun 2004	34	36	ROTTERDAM	02 Jun 2004	705088	Hatch
142	M	04 May 2007	34	36	ROTTERDAM	04 May 2007	705683	Hatch
176	?	11 Jul 2010	34	36	ROTTERDAM	11 Jul 2010	707129	Hatch
239	?	04 Apr 2011	34	36	ROTTERDAM	04 Apr 2011	Z11070	Hatch
240	?	09 Jun 2011	34	36	ROTTERDAM	09 Jun 2011	Z11297	Hatch
279	?	13 Jun 2012	34	36	ROTTERDAM	13 Jun 2012	Z12130	Hatch
280	?	23 Jun 2012	38	37	ROTTERDAM	13 Jun 2012	Z12143	Hatch
281	?	17 Jul 2012	?	?	ROTTERDAM	17 Jul 2012	Z12130	Hatch

Totals: 5.5.6 (16)

**b) Pyxis arachnoides brygooi**

There are currently 72 animals (18.15.39) at 13 locations.

**Location: A03**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
31	F	????	WILD	WILD	ROTTERDAM A03	14 Jan 1991 4 Jan 1995	702005 HZ0306	Transfer Loan to
49	F	????	WILD	WILD	ROTTERDAM A03	17 Jun 1998 21 Jun 1998	704007 HZ0561	Transfer Loan to
50	M	1 Jul 1996	30	31	A03	1 Jul 1996	HZ0428	Hatch
53	F	7 Jun 1999	30	31	A03	7 Jun 1999	HZ0627	Hatch

150	?	13 Nov 2009	30	31	A03	13 Nov 2009	HZ1254	Hatch
237	?	24 Nov 2010	30	31	A03	24 Nov 2010	HZ1327	Hatch
259	M	2000	WILD	WILD	A13 A03	2000 29 Jul 2010	<u>          </u> HZ1319	Transfer Transfer

Totals: 2.3.2 (7)

**Location: A08**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
144	F	14 Sep 2007	103	105	A41 A10 A08	14 Sep 2007 2010 01 Aug 2012	Agineta Pabf05 <u>          </u>	Hatch Transfer Transfer
185	M	????	WILD	WILD	A11 A08	???? 2010	<u>          </u> <u>          </u>	Transfer Transfer
265	M	????	WILD	WILD	A11 A08	???? 01 Aug 2012	<u>          </u> <u>          </u>	Transfer Transfer

Totals: 2.1.0 (3)

**Location: A10**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
103	M	1998	WILD	WILD	A41 A10	08 Aug 2004 2011	Nigma Pabm03	Transfer Transfer
104	F	1998	WILD	WILD	A41 A10	08 Aug 2004 2011	Atea Pabf05	Transfer Transfer
105	F	1992	WILD	WILD	A41 A10	17 Apr 2005 2011	Zora Pabf06	Transfer Transfer
106	F	10 Jul 2005	WILD	WILD	A41 A10	10 Jul 2005 2010	<u>          </u> Pabf01	Hatch Transfer
113	F	30 Jun 2006	103	104	A41 A10	30 Jun 2006 2010	Erigone Pabf03	Hatch Transfer
139	F	1999	WILD	WILD	A41 A10	21 Feb 2007 2010	Eresus Pabf04	Transfer Transfer
167	?	29 Jun 2008	103	104	A41 A10	29 Jun 2008 2010	<u>          </u> <u>          </u>	Hatch Transfer
168	?	01 Aug 2008	103	105	A41 A10	01 Aug 2008 2010	<u>          </u> <u>          </u>	Hatch Transfer
169	?	03 Aug 2008	103	105	A41 A10	03 Aug 2008 2010	<u>          </u> <u>          </u>	Hatch Transfer
170	?	14 Sep 2008	103	104	A41 A10	14 Sep 2008 2010	<u>          </u> <u>          </u>	Hatch Transfer
171	?	25 Sep 2009	103	MULT2	A41 A10	25 Sep 2009 2010	<u>          </u> <u>          </u>	Hatch Transfer
172	?	04 Aug 2010	103	MULT2	A41 A10	04 Aug 2010 2010	<u>          </u> <u>          </u>	Hatch Transfer
173	M	????	WILD	WILD	A11 A10	2011 2011	<u>          </u> Pabm01	Transfer Transfer
174	M	????	WILD	WILD	A11 A10	2011 2011	<u>          </u> Pabm02	Transfer Transfer
196	?	2010	103	MULT2	A41 A10	2010 2011	<u>          </u> <u>          </u>	Hatch Transfer

245	?	14 Mar 2013	103	MULT2	A10	14 Mar 2013	Pabu09	Hatch
246	?	31 Apr 2013	173	106	A10	31 Apr 2013	Pabu10	Hatch
249	?	2011	188	189	A28 A10	2011 2012	<u>          </u> PabNH1	Hatch Transfer
250	?	2011	188	189	A28 A10	2011 2012	<u>          </u> PabNH2	Hatch Transfer
268	M	19 May 2004	MULT19	MULT20	A30 A10	19 May 2004 01 Oct 2013	<u>          </u> Pabm04	Hatch Transfer

Totals: 4.5.11 (20)

**Location: A16**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
152	M	2006	UNK17	UNK18	A49 A16	~2006 11 Nov 2009	<u>          </u> <u>          </u>	Hatch Transfer
153	F	2006	UNK17	UNK18	A49 A16	~2006 02 May 2009	<u>          </u> <u>          </u>	Hatch Transfer
154	?	2006	UNK17	UNK18	A49 A16	~2006 02 May 2009	<u>          </u> <u>          </u>	Hatch Transfer
184	M	????	WILD	WILD	A11 A08 A16	???? 2010 24 Aug 2011	<u>          </u> <u>          </u> <u>          </u>	Transfer Transfer Transfer
198	?	21 Jun 2010	UNK19	UNK20	A30 A16	21 Jun 2010 25 Mar 2011	<u>          </u> <u>          </u>	Hatch Transfer
199	?	19 Jun 2010	UNK19	UNK20	A30 A16	19 Jun 2010 25 Mar 2011	<u>          </u> <u>          </u>	Hatch Transfer
200	?	22 Jun 2010	UNK19	UNK20	A30 A16	22 Jun 2010 25 Mar 2011	<u>          </u> <u>          </u>	Hatch Transfer
201	F	1999	WILD	WILD	A29 A16	1999 02 Jun 2011	<u>          </u> <u>          </u>	Hatch Transfer

Totals: 2.2.4 (8)

**Location: A20**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
190	M	2001	WILD	WILD	A31 A20	~2001 12 Feb 2010	<u>          </u> <u>          </u>	Hatch Transfer
191	M	2001	WILD	WILD	A31 A20	~2001 12 Feb 2010	<u>          </u> <u>          </u>	Hatch Transfer

Totals: 2.0.0 (2)

**Location: A28**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
188	M	1999	WILD	WILD	A29 A28	1999 May 2010	<u>          </u> <u>          </u>	Hatch Transfer
189	F	1999	WILD	WILD	A29 A28	1999 May 2010	<u>          </u> <u>          </u>	Hatch Transfer
251	?	2011	188	189	A28	2011	<u>          </u>	Hatch
252	?	20 Jun 2012	188	189	A28	20 Jun 2012	<u>          </u>	Hatch

Totals: 1.1.2 (4)

**Location: A30**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
218	F	1996	WILD	WILD	A30	14 Feb 2004	___2	Transfer
219	M	1997	WILD	WILD	A30	22 May 2004	__2995	Transfer
220	M	2000	WILD	WILD	A30	05 Jun 2004	__2964	Transfer
222	?	24 Jun 2009	MULT19	MULT20	A30	24 Jun 2009	__2727	Hatch
223	?	25 Jun 2009	MULT19	MULT20	A30	25 Jun 2009	__2728	Hatch
224	F	1996	WILD	WILD	A30	14 Feb 2004	___1	Transfer
225	M	05 May 2002	WILD	WILD	???	05 May 2002	_____	Hatch
				A30		02 Nov 2002	__2962	Transfer
226	M	03 Jun 2002	WILD	WILD	???	03 Jun 2002	_____	Hatch
				A30		02 Nov 2002	__2963	Transfer
227	F	1998	WILD	WILD	A30	01 May 2004	__3000	Transfer
228	M	1997	WILD	WILD	A30	22 May 2004	__2994	Transfer
229	?	2004	WILD	WILD	A30	31 Mar 2005	__2961	Transfer
231	?	25 Jun 2009	MULT19	MULT20	A30	25 Jun 2009	__2731	Hatch
232	?	25 Jun 2009	MULT19	MULT20	A30	25 Jun 2009	__2733	Hatch
233	?	28 Aug 2009	MULT19	MULT20	A30	28 Aug 2009	__2838	Hatch
234	?	18 Jul 2011	MULT19	MULT20	A30	18 Jul 2011	__3550	Hatch
275	?	2013	MULT19	MULT20	A30	2013	_____	Hatch
276	?	2013	MULT19	MULT20	A30	2013	_____	Hatch
277	?	2013	MULT19	MULT20	A30	2013	_____	Hatch

Totals: 5.3.10 (18)

**Location: A35**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
244	?	01 Dec 2012	173	106	A10	01 Dec 2012	Pabu08	Hatch
					A35	Oct 2013	_____	Transfer
253	?	27 Apr 2013	103	MULT2	A10	27 Apr 2013	Pabu11	Hatch
					A35	Oct 2013	_____	Transfer

Totals : 0.0.2 (2)

**Location: A47**

Stud #	Sex	Hatch date	Sire	Dam	Location	Date	Local ID	Event
230	?	12 Aug 2007	MULT19	MULT20	A30	12 Aug 2007	__1832	Hatch
					A47	10 Mar 2012	_____	Transfer

Totals : 0.0.1. (1)

**Location: A48**

Stud #	Sex	Hatch date	Sire	Dam	Location	Date	Local ID	Event
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221	?	22 Jun 2008	MULT19	MULT20	A30	22 Jun 2008	__2134	Hatch
					A48	10 Mar 2012	_____	Transfer

Totals : 0.0.1. (1)

**Location: A50**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
243	?	22 Dec 2012	103	MULT2	A10	22 Dec 2012	Pabu07	Hatch
					A50	Oct 2013	_____	Transfer
245	?	14 Mar 2013	103	MULT2	A10	14 Mar 2013	Pabu09	Hatch
					A50	Oct 2013	_____	Transfer

Totals : 0.0.2 (2)

**Location: A51**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
257	?	27 Jul 2013	103	MULT2	A10	27 Jul 2013	_____	Hatch
					A51	Oct 2013	_____	Transfer
258	?	27 Jul 2013	103	MULT2	A10	27 Jul 2013	_____	Hatch
					A51	Oct 2013	_____	Transfer

Totals : 0.0.2 (2)

**Location: A52**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
254	?	21 May 2013	173	106	A10	21 May 2013	_____	Hatch
					A52	Mar 2013	_____	Transfer
255	?	05 Jul 2013	173	106	A10	05 Jul 2013	_____	Hatch
					A52	Mar 2013	_____	Transfer

Totals : 0.0.2 (2)

**c) *Pyxis arachnoides oblonga***

There are currently 29 animals (9.5.15) at 4 locations.

**Location: A10**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
160	?	01 Mar 2009	UNK12	16	A40	01 Mar 2009	_____	Hatch
					A10	Aug 2013	_____	Loan
235	M	????	WILD	WILD	A45	Jan 2012	_____	Transfer
					A10	24 Mar 2013	_____	Loan
236	M	????	WILD	WILD	A45	Jan 2012	_____	Transfer
					A10	24 Mar 2013	_____	Loan
269	?	13 Jan 2011	UNK12	16	A40	13 Jan 2011	_____	Transfer
					A10	Aug 2013	_____	Loan

Totals : 2.0.2 (4)

**Location: A14**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
161	M	????	WILD	WILD	A14		2000 male4	Transfer
162	M	????	WILD	WILD	A14		2000 male3	Transfer
163	F	????	WILD	WILD	A14		2000 female2	Transfer
164	M	????	WILD	WILD	A14		2000 male2	Transfer
165	M	????	WILD	WILD	A14		2000 male1	Transfer
177	F	????	WILD	WILD	A14		2000 female1	Transfer
178	?	2010	MULT3	163	A14		2010 _____	Hatch
179	?	2010	MULT3	177	A14		2010 _____	Hatch
180	?	2010	MULT3	163	A14		2010 _____	Hatch
181	?	2010	MULT3	177	A14		2010 _____	Hatch
182	?	2010	MULT3	MULT4	A14		2010 _____	Hatch
183	?	01 Dec 2010	MULT3	163	A14	01 Dec 2010	_____	Hatch
204	?	Jan 2011	MULT3	MULT4	A14	Jan 2011	_____	Hatch
205	?	Mar 2011	MULT3	MULT4	A14	Mar 2011	_____	Hatch
206	?	Oct 2010	WILD	WILD	A44	Oct 2010	_____	Hatch
					A14	May 2011	_____	Transfer
207	?	19 Feb 2012	MULT3	MULT4	A14	19 Feb 2012	_____	Hatch

Totals : 4.2.10 (16)

**Location: A16**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
247	F	????	WILD	WILD	A31		1990 _____	Hatch
					A16		2012 _____	Transfer
248	M	????	WILD	WILD	A31		1990 _____	Hatch
					A16		2012 _____	Transfer

Totals : 1.1.0. (2)

**Location: A40**

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
16	F	27 Apr 1999	UNK21	UNK22	A06	27 Apr 1999	_____	Hatch
					A18	25 Jul 2000	_____	Transfer
					A40	06 Feb 2005	_____	Transfer
73	F	????	WILD	WILD	LONDON RP	????	_____	Transfer
					ROTTERDAM	23 Dec 2001	704583	Transfer
					A40	22 Oct 2008	_____	Loan to
99	M	31 Dec 1999	UNK12	UNK13	A40	21 Jul 2004	_____	Transfer
100	M	31 Dec 1999	UNK12	UNK13	A40	21 Jul 2004	_____	Transfer
158	?	22 Dec 2008	UNK12	16	A40	20 Dec 2008	_____	Hatch

Totals: 2.2.3 (7)

### **3. Locations**

At the moment there are 33 locations in the studbook that keep and/or breed *Pyxis arachnoides*. 22 Locations keep *Pyxis a. arachnoides* , 13 locations keep *Pyxis a. brygooi* and 4 locations keep *Pyxis a. oblonga*.

A few locations are not responding for several years now (A19 and A17). The animals of WASSENAAR breeding center were transferred to ROTTERDAM.

Location A17 (this locations keeps/kept *Pyxis a. oblonga*). Especially this location is of more importance to the studbook due to the fact that there are very few *Pyxis a. oblonga* in the studbook.

All of these animals are considered “lost to follow up”. However, it is not the first time that animals, considered “lost to follow up”, at some time pop back up in the studbook, registered at another (new) location. “Lost to follow” up animals will be kept on a separate list (see chapter 8).

### **4. Births**

In 2013, 16 animals were born at 2 locations. 5 *Pyxis a. arachnoides* at 2 locations, 11 *Pyxis a. brygooi* at 2 locations. I would like to point out that several more hatchlings were registered as newborn in the studbook. These animals were newly reported this year but were born in the previous year(s). An overview of the births, since the studbook was created, will be made for the next publication.

At this point I would like to point out that several locations did not (yet) respond to the questionnaire send out by the studbook coordinator. It is my strong belief that more *Pyxis arachnoides* were bred at multiple locations. An action on this topic is planned for 2014 and the years there after.

Another fact is that there are a number of breeders outside the studbook. Every year a few of these (un)known locations outside the studbook produce young that are, at some point, registered in the studbook. This is both good news and bad news. Good news that *Pyxis arachnoides ssp* are bred in greater numbers than known to the studbook, “bad” news is that these locations (so far) remain outside the studbook and so do a part of the offspring born at these locations.

### **5. Deaths**

No animals died in 2013.

However, a few animals have been reported as dead. These animals died during the previous years but somehow this information did not reach the studbook until now.

In total 46 animals died since the beginning of the studbook. 25 *Pyxis a. arachnoides* (9.7.9), 17 *Pyxis arachnoides brygooi* (3.3.11) and 4 *Pyxis arachnoides oblonga* (1.0.3).

## 6. Imports

No import of any *Pyxis arachnoides* took place in 2013 for the studbook

## 7. Transfers

As mentioned before, there were several transfers of *Pyxis arachnoides* in 2013. Some transfers are still in the ongoing phase.

## 8. Lost to follow up

No additional animals left the studbook, however there are still a few animals (locations) that are very hard to reach. On the other hand, no lost animals were traced back.

### Location: A17 (*Pyxis arachnoides oblonga*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
13	?	24 Oct 1997	UNK1	UNK2	A06	24 Oct 1997		Hatch
					A17	25 Jul 2000		Transfer
					A17	2010		LTFU
14	?	28 May 1997	UNK1	UNK2	A06	28 May 1997		Hatch
					A17	25 Jul 2000		Transfer
					A17	2010		LTFU
15	?	26 Jun 1997	UNK1	UNK3	A06	26 Jun 1997		Hatch
					A17	25 Jul 2000		Transfer
					A17	2010		LTFU

Totals: 0.0.3 (3)

### Location: A19 (*Pyxis a. arachnoides*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
40	?	13 Aug 1999	UNK1	UNK2	A07	13 Aug 1999		Hatch
					A19	1 Mar 2000	1	Transfer
					A19	2010		LTFU

Totals: 0.0.1 (1)

### Location: A39 (*Pyxis a. arachnoides*)

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event
86	?	28 Oct 2000	UNK1	UNK2	A39	16 Jul 2002		Transfer
					A39	2008		LTFU



87 ? 29 Aug 2001 UNK1 UNK2 A39 16 Jul 2002 \_\_\_\_\_ Transfer  
A39 2008 \_\_\_\_\_ LTFU

Totals: 0.0.2 (2)

## 9. Situation in the wild

To my knowledge the situation in the wild for *Pyxis arachnoides ssp* has not changed dramatically for the better.

Overall, the situation for *Pyxis arachnoides* in the wild is very worrisome. Populations are rapidly declining.

Walker, R.C.J., Woods-Ballard, A.J. and Rix, C.E. (2007) Population density and seasonal activity of the threatened Madagascar spider tortoise (*Pyxis arachnoides arachnoides*) of the southern dry forests; South West Madagascar. African Journal of Herpetology, 46: 67-73.

Walker, R.C.J. (2009): Preliminary results of a population range and density survey for *Pyxis arachnoides brygooi* in Madagascar. TurtleLog, 2.

Walker, R.C.J. (2010): the decline of the critically endangered Northern Madagascar spider tortoise (*Pyxis arachnoides brygooi*). Herpetologica 66: 411-417.

## 10. Plans for 2014

-An article, stating the existence and the goals of the studbook, will be written and send to several tortoise magazines.

-A further exchanging of tortoises between locations in the studbook.

-A questionnaire was send to numerous locations of the studbook, a report stating the findings will be made up and listed in the appendix of next years studbook report or in a separate report (draft version)

--An historic comparison of births and deaths in the studbook will be made to see the future of the captive studbook population.

## **11. Appendix**

### **Location A54**

#### Enclosure

I keep two (2.0) *pyxis arachnoides arachnoides* on a self-made wooden terrarium measuring 120x60x60 cm with front glass panel. Furniture is made of stones, creating sight barriers along terrarium and providing obstacles to exercise tortoises. I tried using magnolia leaves, to mimic they environment but ended up removing them because it was hard to maintain cleanliness. There is a corner with dry hay on the hottest side and a plastic gutter on the cooler side as hiding places. Substrate is sand in a depth circa 5 cm, except around the water plate, to reduce soiling of the water, where I use pebbles of more than 15 mm in diameter.

#### Climate

Light is provided by a 70 W HQI spot bulb, with UVB output together with a 24W (965) T5 (HO) bulb. With this lighting solution, day temperatures range from 24°C to 31°C, during the active period and 22°C to 28°C, during the resting period. Under the spot, temperatures are much higher, reaching more than 35°C all year long. Night temperatures range from 19°C to 24°C, according to the season, and are the room temperatures. For precaution, there is installed a ceramic bulb connected to a thermostat who keeps temperatures close to the bulb above 25°C during the day and above 20°C during the night. However, this seldom works apart for the morning just before the HQI has heated the terrarium. Day length is 10h to 14h. The transition is progressively made along 4 months. Starting in January, there is an increase of 15mn per week until it reaches 14h. From August, there is a decrease of 15mn per week, until it reaches 10h.

#### Behavior

The active period should be induced by spraying the terrarium heavily around May, every day, or every time the sand gets dry, but, experience as shown that only when I get them outside, for full sun exposure that they starts to be active. I do not find any reason for this. After this outside escapade, tortoises usually become active every day, in the morning, first

drinking, then feeding and afterwards wandering around the terrarium for a couple of hours until they retreat again to the hay corner or under the gutter. Sometimes, they come out to drink or feed again in late afternoon. During the active period, I heavily spray the terrarium every day, keeping humidity (RH) no lower than 60% and sometimes I pour some water around the rocks to keep the sand wet longer. During the resting period I lightly spray the terrarium every other day or less, depending on the humidity level (%RH). They spend the resting period buried in the sand, under the hay.

### Feeding

Food is provided five to six days per week during the active period and it consists of several weeds. The more commonly given are *sonchus sp.*, *cichorium sp.*, *trifolium sp.*, *geranium sp.*, *taraxacum sp.*, *leotondon sp.*, *crepis sp.*, *plantago sp.*, *vicia sp.*, *opuntia sp.*, *sedum album* and *sisymbrium officinale*. Together with these, according to availability, I mix some flowers of those weeds or flowers from roses, hibiscus, nasturtium, viola, zucchini, pumpkin, etc. Once or twice a week, I mix some vegetables or fruits with the weeds, like zucchini, carrot, apple, apricot, peach, melon, strawberry, pear, cucumber, pumpkin, raspberry, etc. and mushroom. They especially prized red fruits, *opuntia* and mushrooms. When using vegetables, I supplement with a vitamin complex (reptivite ®) or calcium powder (repti calcium ®) that sticks easily to the moist vegetables. I always have a clean water plate available in the terrarium that they readily use, to drink and bath. The plate is close to the spot to keep the water warm. There are pieces of sepia bones available that they sometimes bite. During the resting period, tortoises are fed only after the monthly bath I give them to ensure they do not dehydrated. Sometimes they nibble on the food, sometimes they don't.



Photo by Frank van Loon

March 2014

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