

Population Management 2000
 Customized report

Studbook information:

Data exported on: 9 Jan 2012

Version: Sparks v1.6

Data compiled by: Jocelyn Hockley

Founders = 4

Potential Founders = 0 additional

Living Descendants = 10.50

Percent Known = 36.2 (has improved from 20%)

Gene Diversity = 0.8144(has improved from 0.75)

Mean Inbreeding Coefficient (F) = 0.0000 (no change)

Average Mean Kinship (MK) = 0.1856(down from 0.25)

Males					Females				
SB	MK	% Known	Age	Location	SB	MK	% Known	Age	Location
33	0.053	100.0	3	SHEFFIDEV	27	0.184	100.0	2	BONORONG
34	0.053	100.0	2	SHEFFIDEV	32	0.211	50.0	1	BONORONG
28	0.211	50.0	1	BONORONG	20	0.237	50.0	1	SHEFFIDEV
29	0.211	50.0	1	BONORONG	25	0.237	50.0	1	SHEFFIDEV
30	0.211	50.0	1	BONORONG	1	0.500	0.0	5	SHEFFIDEV
31	0.211	50.0	1	BONORONG	6	0.500	0.0	2	TAS ZOO
18	0.237	50.0	1	TROWUNNA	8	0.500	0.0	5	BICHENO
19	0.237	50.0	1	SHEFFIDEV	9	0.500	0.0	4	BICHENO
21	0.237	50.0	1	TROWUNNA	12	0.500	0.0	2	TROWUNNA
22	0.237	50.0	1	SHEFFIDEV	15	0.500	0.0	2	BONORONG
23	0.237	50.0	1	SHEFFIDEV	16	0.500	0.0	2	SHEFFIDEV
24	0.237	50.0	1	SHEFFIDEV					
3	0.500	0.0	4	TROWUNNA					
5	0.500	0.0	2	TAS ZOO					
7	0.500	0.0	4	BONORONG					
10	0.500	0.0	5	BICHENO					
11	0.500	0.0	5	BICHENO					
14	0.500	0.0	2	SHEFFIDEV					

Recommendations: There has been a slight improvement in population but it is still in dire need of recruitment of wild founders to improve Gene diversity and reduce Mean kinship values. Pairing of one of the new Cradle males (Sid or Zeek) with the female from Bonorong (Nuts) would

be the best pairing sue to wild origins but understand that this pairing may not be possible due to locations. In theory only the highlighted animals should be used for breeding but due to the lack of options the following breeding recommendations are proposed (individual institutions would need to decide where animals where held).

Again the acquisition of wild founders is critical to increase the genetic diversity of the species.

Males				Females				
SB#	Name/ID	Location	MK	SB#	Name/ID*	Location	MK	Pair MK
33	Sid	Cradle	0.053	16	Mira	Cradle	0.5	0
34	Zeek	Cradle	0.053	32	2011 Female	Bonorong	0.237	0
28,29,30 or 31	2011 Male	Bonorong	0.211	20	2011 Female	Cradle	0.237	0

Below are the resulting values of the recommended pairings.

Percent Known = 43.1 (has improved from 36.2)

Gene Diversity = 0.8589(has improved from 0.8144)

Average Mean Kinship (MK) 0.1411 = (down from 0.1856)