

Appendix 1

Table A1. Results of tests for overdispersion.

	W	p
Group size	3.40	<0.001
Growls	4.70	<0.001
Calls	2.83	0.002
Barks	2.64	0.004
Challenges	3.00	0.001
Aggression towards sea lions	4.77	<0.001
Aggression towards humans	3.16	<0.001

Table A2. Results Shapiro-Wilk tests of normality

	W	p
Assay reaction	0.705	<0.001
Group size	0.902	<0.001
Growls	0.329	<0.001
Calls	0.098	<0.001
Barks	0.072	<0.001
Challenges	0.132	<0.001
Aggression towards sea lions	0.321	<0.001
Aggression towards humans	0.139	<0.001

Table A3. A summary of GLM results on observed behaviors.

	χ^2	df	p
Calls			
Age	47.8	3	<0.001
Group size	4.2	1	0.240
Sex	26.9	2	<0.001
Site	19.8	3	0.001
Growls			
Age	51.2	3	<0.001
Group size	7.7	1	0.006
Sex	6.9	2	0.032
Site	4.3	3	0.230
Barks			
Group size	6.9	1	0.009
Site	10.3	3	0.016

Challenges				
Age	12.9	3		0.002
Group size	4.5	1		0.034
Sex	5.2	2		0.48
Site	7.4	3		0.061
Aggression towards sea lions				
Age	60.1	3		<0.001
Group size	8.8	1		0.003
Sex	1.0	2		0.600
Site	2.4	3		0.500
Aggression towards humans				
Site	2.5	3		0.481
Age	127.4	3		<0.001
Sex	47.1	2		<0.001

Group size

7.5

1

0.006