

Supplementary Material

Table S1: Experimental design for the long-term ecological research project in Nizzanim, showing the sampling time (years) for each taxon

	Number of dunes	Rodents (Sept-Oct)	Reptiles (Sept-Oct)	Beetles (Mar-Apr)	Annual Plants (Mar-Apr)	Perennial plants
Mobile dunes (target)	3	2005-2016	2005-2016	2006-2016	2006-2016	2005-2016
Untreated fixed dunes (control)	3	2005-2016	2005-2016	2006-2016	2006-2016	2005-2016
Treated fixed dunes (treated Oct 2005)	3	2005-2016	2005-2016	2006-2016	2006-2016	2005-2016
Untreated semi-fixed dunes (control)	4	2011-2016	2011-2016	2012-2016	2011-2016	2011-2016
Treated semi-fixed dunes (treated Nov 2012)	4	2011-2016	2011-2016	2012-2016	2011-2016	2011-2016
Disturbed dunes (SUVs)	4	2011-2015	2011-2015	2011-2017	Not sampled	2011-2016

Table S2:

Poisson (GLMM PQL) and Linear (LME) Mixed effect Models of community abundance (Fig. 2) for each taxon.

Parameter	Taxon	Model	Treatment tested	Tested Dune	Ref Dunes	Estimat	Std.Error	DF	t	p	sig
Abundance	Rodents	Linear	Control (Un-treated)	Mobile	Untreated Semi-fixed	-0.72	1.02	77.00	-0.71	0.480	
					Untreated Fixed	0.56	1.12	77.00	0.50	0.620	
			Semi-Fixed treatment	Treated Semi-fixed	Mobile	0.26	1.03	64.00	0.26	0.800	
					Untreated Semi-fixed	-0.06	1.03	64.00	-0.06	0.951	
			Fixed treatment	Treated Fixed	Mobile	1.62	1.95	39.00	0.83	0.410	
					Untreated Fixed	3.56	1.98	39.00	1.80	0.080	
			ORV disturbance	Disturbed	Mobile	-0.69	1.62	42.00	-0.42	0.674	
					Untreated Semi-Fixed	-0.69	1.62	42.00	-0.43	0.673	
	Reptiles	Poisson	Control	Mobile	Semi-Fixed un-treated	-0.08	0.05	77.00	-1.51	0.136	
					Untreated Fixed	0.07	0.05	77.00	1.33	0.187	
			Semi-Fixed treatment	Treated Semi-fixed	Mobile	0.09	0.06	64.00	1.53	0.130	
					Untreated Semi-Fixed	-0.01	0.06	64.00	-0.16	0.871	
			Fixed treatment	Treated Fixed	Mobile	0.11	0.06	56.00	1.84	0.072	.
					Untreated Fixed	0.16	0.06	56.00	2.55	0.014	*
			ORV disturbance	Disturbed	Mobile	0.30	0.08	42.00	3.87	0.000	***
					Untreated Semi-fixed	0.20	0.08	42.00	2.55	0.015	*
	Beetles	Poisson	Control	Mobile	CC Mobile	0.09	0.13	54.00	0.74	0.461	
					Untreated Semi-fixed	0.18	0.11	54.00	1.66	0.102	
			Semi-Fixed treatment	Treated Semi-fixed	Mobile	-0.07	0.11	46.00	-0.61	0.542	
					Untreated Semi-fixed	-0.03	0.10	46.00	-0.29	0.775	
Fixed treatment			Treated Fixed	Mobile	-0.53	0.12	45.00	-4.32	0.000	***	
				Untreated Fixed	-0.27	0.11	45.00	-2.36	0.023	*	
ORV disturbance			Disturbed	Mobile	-0.53	0.16	38.00	-3.40	0.002	**	
				Untreated Semi-fixed	-0.61	0.15	38.00	-4.19	0.000	***	
Annual	Linear	Control	Mobile	Untreated Semi-fixed	7.46	1.88	39.00	3.98	0.000	***	
				Untreated Fixed	11.95	1.56	39.00	7.64	0.000	***	
		Semi-Fixed treatment	Treated Semi-fixed	Mobile	-9.72	1.75	43.00	-5.56	0.000	***	
				Untreated Semi-fixed	-1.26	1.29	43.00	-0.98	0.333		
		Fixed treatment	Treated Fixed	Mobile	-15.64	1.80	43.00	-8.68	0.000	***	
				Untreated Fixed	-3.75	1.78	43.00	-2.11	0.041	*	

Table S3:
Poisson (GLMM_PQL) and Linear (LME) Mixed effect Models of species richness (Fig. 3) for each taxon.

Paramete	Taxon	Model	Treatment tested	Tested Dune	Ref Dunes	Estimat	Std.Error	DF	t	p	sig
Richness	Rodents	Poisson	Control (Un-treated)	Mobile	Untreated Semi-fixed	-0.42	0.06	77.00	-7.02	0.000	***
					Untreated Fixed	-0.83	0.08	77.00	-10.72	0.000	***
			Semi-Fixed	Treated Semi-	Mobile	0.21	0.07	64.00	2.92	0.005	**
					Untreated Semi-fixed	-0.18	0.08	64.00	-2.26	0.027	*
			Fixed	Treated Fixed	Mobile	0.72	0.03	39.00	22.82	0.000	***
					Untreated Fixed	0.00	0.04	39.00	0.00	1.000	
			ORV disturbance	Disturbed	Mobile	0.04	0.06	77.00	0.61	0.542	
					Untreated Semi-Fixed	0.28	0.07	77.00	4.28	0.000	***
	Reptiles	Poisson	Control	Mobile	Semi-Fixed un-treated	-0.07	0.07	64.00	-1.04	0.304	
					Untreated Fixed	-0.03	0.07	64.00	-0.41	0.683	
			Semi-Fixed	Treated Semi-	Mobile	-0.14	0.08	56.00	-1.77	0.082	.
					Untreated Semi-Fixed	0.14	0.08	56.00	1.92	0.060	.
			Fixed	Treated Fixed	Mobile	0.10	0.08	42.00	1.16	0.254	
					Untreated Fixed	0.19	0.08	42.00	2.39	0.021	*
			ORV disturbance	Disturbed	Mobile	-0.08	0.07	54.00	-1.07	0.290	
					Untreated Semi-fixed	-0.15	0.07	54.00	-2.05	0.045	*
	Beetles	Poisson	Control	Mobile	CC Mobile	-0.06	0.08	46.00	-0.65	0.520	
					Untreated Semi-fixed	-0.06	0.08	46.00	-0.73	0.468	
			Semi-Fixed	Treated Semi-	Mobile	0.11	0.09	45.00	1.33	0.191	
					Untreated Semi-fixed	-0.02	0.09	45.00	-0.23	0.823	
Fixed			Treated Fixed	Mobile	0.00	0.08	38.00	-0.05	0.962		
				Untreated Fixed	0.05	0.08	38.00	0.61	0.543		
ORV disturbance			Disturbed	AC Mobile	0.29	0.13	39.00	2.25	0.030	*	
				Untreated Semi-fixed	0.89	0.10	39.00	8.81	0.000	***	
Annals	Poisson	Control	Mobile	Untreated Semi-fixed	-0.40	0.07	43.00	-5.71	0.000	***	
				Untreated Fixed	-0.08	0.05	43.00	-1.65	0.105		
		Semi-Fixed	Treated Semi-	Mobile	-0.76	0.11	43.00	-6.78	0.000	***	
				Untreated Semi-fixed	0.12	0.09	43.00	1.40	0.167		
		Fixed	Treated Fixed	Mobile	-0.42	0.06	77.00	-7.02	0.000	***	
				Untreated Fixed	-0.83	0.08	77.00	-10.72	0.000	***	

Table S4: Pairwise Permanova of species composition among dune states. Each treatment type was tested separately, with some data overlap (e.g., mobile and Untreated Semi-Fixed dunes are used for both treated Semi-Fixed and Disturbed dune comparisons). Bold rows are of interest in terms of meeting the expectations for responses to treatment.

Treatment	Taxon	Pairs	F.Model	R2	p	adj.p	sig	
Semi-Fixed	Rodents	Mobile vs Untreated Semi-Fixed	79.37	0.63	0.001	0.003	***	
		Mobile vs Treated semi-fixed	39.09	0.46	0.001	0.003	***	
		Treated vs Untreated semi-fixed	6.88	0.13	0.007	0.021	**	
	Reptiles	Mobile vs Untreated Semi-Fixed	5.59	0.11	0.001	0.003	***	
		Mobile vs Treated semi-fixed	4.18	0.08	0.002	0.006	**	
		Treated vs Untreated semi-fixed	0.25	0.01	0.910	1		
	Beetles	Mobile vs Untreated Semi-Fixed	15.92	0.34	0.001	0.003	***	
		Mobile vs Treated semi-fixed	12.97	0.28	0.001	0.003	***	
		Treated vs Untreated semi-fixed	0.93	0.03	0.468	1		
	Annuals	Mobile vs Untreated Semi-Fixed	6.97	0.19	0.001	0.003	***	
		Mobile vs Treated semi-fixed	8.31	0.22	0.001	0.003	***	
		Treated vs Untreated semi-fixed	0.90	0.02	0.462	1		
	Fixed	Rodents	Mobile vs Untreated fixed	201.59	0.87	0.001	0.002	***
			Mobile vs Treated fixed	201.59	0.87	0.001	0.002	***
			Treated vs Untreated fixed	0.67	0.02	0.718	1	
Reptiles		Mobile vs Untreated fixed	52.06	0.55	0.001	0.003	***	
		Mobile vs Treated fixed	52.83	0.56	0.001	0.003	***	
		Treated vs Untreated fixed	2.05	0.05	0.064	0.192	.	
Beetles		Mobile vs Untreated fixed	21.18	0.38	0.001	0.003	***	
		Mobile vs Treated fixed	19.03	0.37	0.001	0.003	***	
		Treated vs Untreated fixed	0.67	0.02	0.718	1		
Annuals	Mobile vs Untreated fixed	9.16	0.22	0.001	0.003	***		
	Mobile vs Treated fixed	11.23	0.27	0.001	0.003	***		
	Treated vs Untreated fixed	0.88	0.03	0.501	1			

Treatment	Taxon	Pairs	F.Model	R2	p	adj.p	sig
Disturbed	Rodents	Mobile vs Untreated semi-fixed	65.71	0.69	0.001	0.003	***
		Mobile vs Disturbed	18.34	0.38	0.001	0.003	***
		Untreated Semi-Fixed vs Disturbed	146.14	0.83	0.001	0.003	***
	Reptiles	Mobile vs Untreated semi-fixed	3.89	0.11	0.008	0.024	**
		Mobile vs Disturbed	7.05	0.19	0.001	0.003	***
		Untreated Semi-Fixed vs Disturbed	8.07	0.21	0.001	0.003	***
	Beetles	Mobile vs Untreated semi-fixed	10.76	0.29	0.001	0.003	***
		Mobile vs Disturbed	1.49	0.05	0.158	0.474	
		Untreated Semi-Fixed vs Disturbed	10.80	0.26	0.001	0.003	***

Table S5: Poisson (GLMM_PQL) and Linear (LME) Mixed effect Models of abundance for each Mobile-dune Indicator Species (MIS). Results were used for Fig.11a-d.

Indicator	Taxon	Species	model	Treatment	Tested	Est	S.E	DF	t	p	sig
a) MIS	Rodents Fig. 11a	<i>G.pyramidum</i>	lme	Treated Semi-Fixed	Mobile	2.30	0.46	64.00	5.04	0.000	***
					Untreated Semi-Fixed	-0.96	0.46	64.00	-2.10	0.039	*
				Treated Fixed	Mobile	6.30	0.64	39.00	9.88	0.000	***
					Untreated Fixed	0.00	0.65	39.00	0.00	1.000	
				ORV Disturbed	Mobile	-2.79	1.10	42.00	-2.54	0.015	*
					Untreated Semi-Fixed	-6.27	1.10	42.00	-5.69	0.000	***
	Reptiles Fig. 11b	<i>A.scutellatus</i>	glmm PQL	Treated Semi-Fixed	Mobile	0.43	0.09	64.00	5.01	0.000	***
					Untreated Semi-Fixed	-0.12	0.10	64.00	-1.28	0.205	
				Treated Fixed	Mobile	3.14	0.46	56.00	6.88	0.000	***
					Untreated Fixed	-1.39	1.00	56.00	-1.39	0.171	
				ORV Disturbed	Mobile	0.16	0.10	42.00	1.67	0.103	
					Untreated Semi-Fixed	-0.44	0.11	42.00	-3.80	0.000	***
	Beetles Fig 4.10c	<i>S.striatus</i>	glmm PQL	Treated Semi-Fixed	Mobile	1.69	0.35	46.00	4.77	0.000	***
					Untreated Semi-Fixed	-2.82	1.43	46.00	-1.97	0.055	.
				Treated Fixed	Mobile	30.79	0.71	45.00	0.00	1.000	
					Untreated Fixed	0.04	0.22	45.00	0.00	1.000	
ORV Disturbed				Mobile	0.91	0.24	38.00	3.73	0.001	***	
				Untreated Semi-Fixed	-3.56	1.18	38.00	-3.03	0.004	**	
Annuals Fig. 11d	<i>C.memphitica</i>	lme	Treated Semi-Fixed	Mobile	-0.05	0.03	28.00	-1.64	0.112		
				Untreated Semi-Fixed	-0.05	0.03	28.00	-1.61	0.119		
			Treated Fixed	Mobile	0.06	0.05	37.00	1.09	0.283		
				Untreated Fixed	0.06	0.05	37.00	1.08	0.288		

Table S6: Poisson (GLMM_PQL) and Linear (LME) Mixed effect Models of abundance for each Fixed dune Indicator Species Fixed-dune Indicator Species. Results were used for Fig.11e-h.

Indicator	Taxon	Species	model	Treatment	Tested	Est	S.E	DF	t	p	sig
FIS	Rodents Fig. 11e	<i>G.a.allenbyi</i>	lme	Treated Semi-Fixed	Mobile	-2.16	0.94	64.00	-2.30	0.025	*
					Untreated Semi-Fixed	0.77	0.94	64.00	0.82	0.416	
				Treated Fixed	Mobile	-4.73	1.97	39.00	-2.40	0.021	*
					Untreated Fixed	3.56	2.00	39.00	1.78	0.084	.
	ORV Disturbed	Mobile	2.29	0.92	42.00	2.48	0.017	*			
		Untreated Semi-Fixed	5.77	0.92	42.00	6.25	0.000	***			
	Reptiles Fig. 11f	<i>A.schreiberi</i>	glmm PQL	Treated Semi-Fixed	Mobile	-0.69	0.65	64.00	-1.06	0.292	
					Untreated Semi-Fixed	0.41	0.49	64.00	0.83	0.408	
				Treated Fixed	Mobile	-2.34	0.34	56.00	-6.85	0.000	***
					Untreated Fixed	-0.02	0.15	56.00	-0.12	0.906	
	ORV Disturbed	Mobile	27.63	0.11	42.00	0.00	1.000				
		Untreated Semi-Fixed	28.73	0.11	42.00	0.00	1.000				
Beetles Fig. 11g	<i>G.serrator</i>	glmm PQL	Treated Semi-Fixed	Mobile	-1.13	0.72	46.00	-1.56	0.126		
				Untreated Semi-Fixed	0.20	0.44	46.00	0.46	0.649		
			Treated Fixed	Mobile	-2.94	0.92	45.00	-3.19	0.003	**	
				Untreated Fixed	0.39	0.27	45.00	1.44	0.157		
ORV Disturbed	Mobile	0.44	1.00	38.00	0.44	0.661					
	Untreated Semi-Fixed	1.76	0.79	38.00	2.22	0.032	*				
Annuals Fig. 11h	<i>B.rigidus</i>	lme	Treated Semi-Fixed	Mobile	-0.01	0.01	28.00	-0.81	0.427		
				Untreated Semi-Fixed	0.00	0.01	28.00	0.38	0.709		
			Treated Fixed	Mobile	-0.11	0.06	37.00	-1.86	0.072	.	
		Untreated Fixed	0.01	0.06	37.00	0.11	0.916				

Table S7: Permuted Empirical Cumulative Distribution Function (ecdf) models for Mobile dune Indicator Species (MIS) in each treatment type (Fig. 12a-d).

Taxon	Species	Treatment	Year	Ref	Tested	p	sig
Rodents Fig. 12a	<i>G.pyramidum</i>	Semi-fixed	2011	Treated-Semi-fixed	Mobile	0.310	
			2011		Untreated Semi-fixed	0.000	+++
			2012	Treated-Semi-fixed	Mobile	0.000	+++
			2012		Untreated Semi-fixed	0.630	
			2013	Treated Semi-fixed	Mobile	0.000	+++
			2013		Untreated Semi-fixed	0.068	
			2014	Treated Semi-fixed	Mobile	0.000	+++
			2014		Untreated Semi-fixed	0.064	
			2015	Treated Semi-fixed	Mobile	0.030	+
			2015		Untreated Semi-fixed	0.247	
			2016	Treated Semi-fixed	Mobile	0.320	
			2016		Untreated Semi-fixed	0.030	*
		Fixed	2005	Treated Fixed	Mobile	0.000	+++
			2005		Untreated Fixed	1.000	
			2006	Treated Fixed	Mobile	0.000	+++
			2006		Untreated Fixed	1.000	
			2007	Treated Fixed	Mobile	0.000	+++
			2007		Untreated Fixed	1.000	
			2008	Treated Fixed	Mobile	0.000	+++
			2008		Untreated Fixed	1.000	
		Disturbed	2016	Treated Fixed	Mobile	0.000	+++
			2016		Untreated Fixed	1.000	
			2012	Disturbed	Mobile	0.110	
			2012		Untreated Semi-fixed	0.000	***
2013	Disturbed		Mobile	0.285			
2013			Untreated Semi-fixed	0.000	***		
2014	Disturbed		Mobile	0.017	+		
2014			Untreated Semi-fixed	0.000	***		
Reptiles Fig. 12b	<i>A.scutelattus</i>	Semi-fixed	2011	Treated Semi-fixed	Mobile	0.020	+
			2011		Untreated Semi-fixed	0.638	
			2012	Treated Semi-fixed	Mobile	0.003	++
			2012		Untreated Semi-fixed	0.443	
			2013	Treated Semi-fixed	Mobile	0.000	+++
			2013		Untreated Semi-fixed	0.004	**
			2014	Treated Semi-fixed	Mobile	0.005	++
			2014		Untreated Semi-fixed	0.345	
			2015	Treated Semi-fixed	Mobile	0.000	+++
			2015		Untreated Semi-fixed	0.382	
			2016	Treated Semi-fixed	Mobile	0.000	+++
			2016		Untreated Semi-fixed	0.191	

Taxon	Species	Treatment	Year	Ref	Tested	p	sig
Reptiles (cont.)	<i>A.scutelattus (cont.)</i>	Fixed	2005	Treated Fixed	Mobile	0.000	+++
			2005		Untreated Fixed	0.296	
			2006	Treated Fixed	Mobile	0.000	+++
			2006		Untreated Fixed	0.303	
			2007	Treated Fixed	Mobile	0.000	+++
			2007		Untreated Fixed	0.296	
			2008	Treated Fixed	Mobile	0.000	+++
			2008		Untreated Fixed	1.000	
		2009	Treated Fixed	Mobile	0.000	+++	
		2009		Untreated Fixed	1.000		
		2015	Treated Fixed	Mobile	0.000	+++	
		2015		Untreated Fixed	1.000		
		2016	Treated Fixed	Mobile	0.000	+++	
		2016		Untreated Fixed	0.289		
		Disturbed	2012	Disturbed	Mobile	0.379	
			2012		Untreated Semi-fixed	0.172	
2013	Disturbed		Mobile	0.065			
2013			Untreated Semi-fixed	0.000	***		
2014	Disturbed		Mobile	0.638			
2014			Untreated Semi-fixed	0.000	***		
2015	Disturbed	Mobile	0.000	+++			
2015		Untreated Semi-fixed	0.389				
Beetles Fig. 12c	<i>S.striatus</i>	Semi-fixed	2011	Treated Semi-fixed	Mobile	0.000	+++
			2011		Untreated Semi-fixed	1.000	
			2012	Treated Semi-fixed	Mobile	0.000	+++
			2012		Untreated Semi-fixed	0.320	
			2014	Treated Semi-fixed	Mobile	0.000	+++
			2014		Untreated Semi-fixed	0.321	
			2015	Treated Semi-fixed	Mobile	0.000	+++
			2015		Untreated Semi-fixed	0.057	
		2016	Treated Semi-fixed	Mobile	0.122		
		2016		Untreated Semi-fixed	0.000	***	
		Fixed	2005	Treated Fixed	Mobile	0.000	+++
			2005		Untreated Fixed	1.000	
			2006	Treated Fixed	Mobile	0.036	+
			2006		Untreated Fixed	1.000	
2007	Treated Fixed		Mobile	0.000	+++		
2007			Untreated Fixed	1.000			
2009	Treated Fixed	Mobile	0.000	+++			
2009		Untreated Fixed	1.000				

Taxon	Species	Treatment	Year	Ref	Tested	p	sig		
Beetles (cont.)	<i>S.striatus (cont.)</i>	Fixed (cont.)	2015	Treated Fixed	Mobile	0.000	+++		
			2015	Untreated Fixed		1.000			
			2016	Treated Fixed	Mobile	0.000	+++		
			2016	Untreated Fixed		1.000			
			Disturbed	2012	Disturbed	Mobile	0.000	+++	
				2012	Untreated Semi-fixed		0.004	*	
		2014		Disturbed	Mobile	0.204			
		2014		Untreated Semi-fixed		0.000	***		
		2015		Disturbed	Mobile	0.007	++		
		2015		Untreated Semi-fixed		0.000	***		
		Annuals Fig. 12d	<i>C.memphitica</i>	Semi-fixed	2011	Treated Semi-fixed	Mobile	0.002	++
					2011	Untreated Semi-fixed		0.111	
2014	Treated Semi-fixed				Mobile	0.265			
2014	Untreated Semi-fixed					0.099			
2016	Treated Semi-fixed				Mobile	0.000	+++		
2016	Untreated Semi-fixed					0.008	*		
Fixed	2006				Treated Fixed	Mobile	1.000		
	2006				Untreated Fixed		0.060		
	2007				Treated Fixed	Mobile	0.000	+++	
	2007				Untreated Fixed		1.000		
	2009			Treated Fixed	Mobile	0.294			
	2009			Untreated Fixed		1.000			
2014	Treated Fixed			Mobile	0.353				
2014	Untreated Fixed				0.249				
2016	Treated Fixed			Mobile	0.036	+			
2016	Untreated Fixed				0.296				

Table S8: Permuted Empirical Cumulative Distribution Function (ecdf) models for Fixed dune Indicator Species (FIS) in each treatment type (Fig. 12e-h).

Taxon	Species	Treatment	Year	Ref	Tested	p	sig
Rodents Fig.12e	<i>G. andersoni allenbyi</i>	Semi-fixed	2011	Treated-Semi-fixed	Mobile	0.004	++
			2011		Untreated Semi-fixed	0.085	
			2012	Treated-Semi-fixed	Mobile	0.023	+
			2012		Untreated Semi-fixed	0.219	
			2013	Treated Semi-fixed	Mobile	0.081	
			2013		Untreated Semi-fixed	0.302	
			2014	Treated Semi-fixed	Mobile	0.134	***
			2014		Untreated Semi-fixed	0.000	
			2015	Treated Semi-fixed	Mobile	0.237	
			2015		Untreated Semi-fixed	0.108	
			2016	Treated Semi-fixed	Mobile	0.086	
			2016		Untreated Semi-fixed	0.014	
		Fixed	2005	Treated Fixed	Mobile	0.024	+
					Untreated Fixed	0.000	***
			2006	Treated Fixed	Mobile	0.009	++
					Untreated Fixed	0.332	
			2007	Treated Fixed	Mobile	0.000	+++
					Untreated Fixed	0.248	
			2008	Treated Fixed	Mobile	0.245	
					Untreated Fixed	0.046	*
		2016	Treated Fixed	Mobile	0.132		
				Untreated Fixed	0.243		
		Disturbed	2012	Disturbed	Mobile	0.000	+++
					Untreated Semi-fixed	0.006	*
2013	Disturbed		Mobile	0.495			
			Untreated Semi-fixed	0.005	*		
2014	Disturbed		Mobile	0.008	++		
			Untreated Semi-fixed	0.000	***		
2015	Disturbed		Mobile	0.000	+++		
			Untreated Semi-fixed	0.000	***		
Reptiles Fig.12f	<i>A.schreiberi</i>	Semi-fixed	2011	Treated Semi-fixed	Mobile	0.133	
			2011		Untreated Semi-fixed	0.420	
			2012	Treated Semi-fixed	Mobile	0.003	++
			2012		Untreated Semi-fixed	0.392	
			2013	Treated Semi-fixed	Mobile	0.314	
			2013		Untreated Semi-fixed	0.668	
			2014	Treated Semi-fixed	Mobile	0.317	
			2014		Untreated Semi-fixed	0.321	
			2015	Treated Semi-fixed	Mobile	0.312	
			2015		Untreated Semi-fixed	0.667	
			2016	Treated Semi-fixed	Mobile	0.318	
			2016		Untreated Semi-fixed	0.061	

Taxon	Species	Treatment	Year	Ref	Tested		
Reptiles (cont.)	<i>A.schreiberi (cont.)</i>	Fixed	2005	Treated Fixed	Mobile	0.000	+++
			2005		Untreated Fixed	0.312	
			2006	Treated Fixed	Mobile	0.000	+++
			2006		Untreated Fixed	0.294	
			2007	Treated Fixed	Mobile	0.002	++
			2007		Untreated Fixed	0.674	
			2008	Treated Fixed	Mobile	0.012	+
			2008		Untreated Fixed	0.672	
		2009	Treated Fixed	Mobile	0.000	+++	
		2009		Untreated Fixed	0.625		
		2015	Treated Fixed	Mobile	0.000	+++	
		2015		Untreated Fixed	0.185		
		2016	Treated Fixed	Mobile	0.000	+++	
		2016		Untreated Fixed	0.400		
		Disturbed	2012	Disturbed	Mobile	1.000	
			2012		Untreated Semi-fixed	0.004	*
2013	Disturbed		Mobile	1.000			
2013			Untreated Semi-fixed	0.313			
2014	Disturbed		Mobile	0.312			
2014			Untreated Semi-fixed	0.325			
2015	Disturbed		Mobile	1.000			
2015			Untreated Semi-fixed	0.310			
Beetles Fig.12g	<i>G.serrator</i>	Semi-fixed	2011	Treated Semi-fixed	Mobile	0.217	
			2011		Untreated Semi-fixed	0.434	
			2012	Treated Semi-fixed	Mobile	0.310	
			2012		Untreated Semi-fixed	0.337	
			2014	Treated Semi-fixed	Mobile	0.304	
			2014		Untreated Semi-fixed	0.248	
			2015	Treated Semi-fixed	Mobile	0.005	++
			2015		Untreated Semi-fixed	0.459	
		2016	Treated Semi-fixed	Mobile	0.000	+++	
		2016		Untreated Semi-fixed	0.351		
		Fixed	2005	Treated Fixed	Mobile	0.000	+++
			2005		Untreated Fixed	0.312	
			2006	Treated Fixed	Mobile	0.000	+++
			2006		Untreated Fixed	0.221	
2007	Treated Fixed		Mobile	0.000	+++		
2007			Untreated Fixed	0.299			

Taxon	Species	Treatment	Year	Ref	Tested				
Beetles (cont.)	<i>G.serrator (cont.)</i>	Fixed (cont.)	2009	Treated Fixed	Mobile	0.035	+		
			2009		Untreated Fixed	0.211			
			2015	Treated Fixed	Mobile	0.000	+++		
			2015		Untreated Fixed	0.105			
			2016	Treated Fixed	Mobile	0.000	+++		
			2016		Untreated Fixed	0.339			
		Disturbed	2012	Disturbed	Mobile	1.000			
			2012		Untreated Semi-fixed	0.059			
			2014	Disturbed	Mobile	0.153			
			2014		Untreated Semi-fixed	0.139			
			2015	Disturbed	Mobile	0.062			
			2015		Untreated Semi-fixed	0.259			
		Annuals Fig.12h	<i>B.rigidus</i>	Semi-fixed	2011	Treated Semi-fixed	Mobile	1.000	
					2011		Untreated Semi-fixed	1.000	
2014	Treated Semi-fixed				Mobile	0.308			
2014					Untreated Semi-fixed	0.008	*		
2016	Treated Semi-fixed				Mobile	0.065			
2016					Untreated Semi-fixed	0.065			
Fixed	2006			Treated Fixed	Mobile	0.296			
	2006				Untreated Fixed	0.297			
	2007			Treated Fixed	Mobile	0.000	+++		
	2007				Untreated Fixed	0.302			
	2009			Treated Fixed	Mobile	0.295			
	2009				Untreated Fixed	0.294			
	2014			Treated Fixed	Mobile	1.000			
	2014				Untreated Fixed	0.294			
2016	Treated Fixed	Mobile	0.000	+++					
2016		Untreated Fixed	0.363						