

Supplementary material

Table S1. Transition probabilities of *Silene ciliata* individuals in Laguna, Dos Hermanas and Peñalara (Sierra de Guadarrama, Spain), from year  $t$  to year  $t+1$ . Nonexisting matrix entries are indicated by dashes.

2003–2004	Laguna population					Dos Hermanas population				
	Seedling	Small	Medium	Large	Extra-large	Seedling	Small	Medium	Large	Extra-large
Seedling	–	0.001	0.004	0.012	0.043	–	0.001	0.009	0.024	0.079
Small	0.000	0.469	0.083	0.022	0.023	0.614	0.754	0.278	0.098	0.000
Medium	0.000	0.187	0.458	0.156	0.023	0.000	0.175	0.620	0.244	0.034
Large	0.000	0.093	0.292	0.556	0.186	0.000	0.035	0.076	0.634	0.448
Extra-large	–	0.000	0.042	0.178	0.535	–	0.018	0.000	0.024	0.517
Mortality	1.000	0.251	0.125	0.089	0.233	0.386	0.018	0.025	0.000	0.000
2004–2005										
Seedling	–	0.002	0.012	0.034	0.054	–	0.003	0.014	0.039	0.107
Small	0.333	0.250	0.150	0.024	0.000	0.000	0.623	0.163	0.014	0.056
Medium	0.000	0.250	0.250	0.073	0.031	0.000	0.325	0.563	0.137	0.000
Large	0.333	0.250	0.350	0.659	0.250	0.000	0.026	0.238	0.699	0.222
Extra-large	–	0.000	0.000	0.195	0.594	–	0.000	0.013	0.137	0.722
Mortality	0.334	0.250	0.250	0.049	0.125	1.000	0.026	0.025	0.014	0.000
2005–2006										
Seedling	–	0.002	0.009	0.024	0.038	–	0.002	0.017	0.041	0.106
Small	0.666	0.500	0.000	0.000	0.000	0.614	0.627	0.089	0.000	0.000
Medium	0.000	0.250	0.693	0.133	0.037	0.000	0.299	0.709	0.105	0.000
Large	0.000	0.000	0.154	0.600	0.148	0.000	0.000	0.152	0.697	0.250
Extra-large	–	0.000	0.000	0.089	0.778	–	0.000	0.025	0.171	0.750
Mortality	0.334	0.250	0.153	0.178	0.037	0.386	0.075	0.025	0.026	0.000
Peñalara population										
2003–2004	Seedling	Small	Medium	Large	Extra-large					
Seedling	–	0.039	0.047	0.088	0.178					
Small	0.571	0.222	0.000	0.014	0.000					
Medium	0.000	0.667	0.623	0.101	0.000					
Large	0.000	0.111	0.377	0.768	0.207					
Extra-large	–	0.000	0.000	0.116	0.793					
Mortality	0.429	0.000	0.000	0.000	0.000					