

Species status	Seed rain		Seed bank		All seeds		Emergед		Established	
	No.	%	No.	%	No.	%	No.	%	No.	%
All individuals	12370	100.0	23014	100.0	35384	100.0	3039	100.0	1079	100.0
Locally-persistent	11852	95.8	19867	86.3	31719	89.6	2778	91.4	983	91.1
Locally-transient	518	4.2	3147	13.7	3665	10.4	261	8.6	96	8.9
<b>Temperature of nearest persistent adult population</b>										
Same	428	3.5	2061	9.0	2489	7.0	180	5.9	83	7.7
Cooler	16	0.1	356	1.5	372	1.1	41	1.3	2	0.2
Warmer	21	0.2	72	0.3	93	0.3	5	0.2	5	0.5
Unknown	53	0.4	658	2.9	711	2.0	35	1.2	6	0.6
<b>Precipitation of nearest persistent adult population</b>										
Same	154	1.2	1636	7.1	1790	5.1	155	5.1	58	5.4
Drier	51	0.4	441	1.9	492	1.4	62	2.0	28	2.6
Wetter	260	2.1	412	1.8	672	1.9	9	0.3	4	0.4
Unknown	53	0.4	658	2.9	711	2.0	35	1.2	6	0.6

**Table S2.**

Numbers of individuals recorded, grouped by locally-transient/locally-persistent species status (top three rows). Then, locally-transient individuals are further grouped by the putative climate preferences of their species, i.e., the temperatures/precipitations of the nearest sites at which persistent adult populations are known to occur, relative the climates of the local sites. Percentages are of all individuals (top row). Individuals that could not be identified to species were not included.