

Table S8. Mean percentage of foraged seeds not dispersed (Not Disp.) and dispersed seeds dispersed during flight (Flight) for the five study species by movement method; standard error of the mean is presented within parentheses. Thirty experiments per species per movement method. These experiments use *T. migratorius* physiological parameters (main text, Table 1) for all bird species.

	Permeability			Straight path				Permeability			Straight path			
Species	Not Disp.			Not Disp.			U	Flight			Flight			U
<i>C. cristata</i>	86.2	(0.67)	a	86.6	(0.47)	a	447	0.93	(0.44)	a	1.13	(0.61)	ab	461
<i>M. erythrocephalus</i>	88.0	(0.51)	a	86.6	(0.65)	a	562	0.9	(0.39)	a	1.03	(0.5)	ab	429.5
<i>S. sialis</i>	87.8	(0.61)	a	87.5	(0.56)	a	459	1.52	(0.59)	a	2.07	(0.59)	a	373.5
<i>T. migratorius</i>	88.3	(0.6)	a	86.8	(0.56)	a	568	0.91	(0.44)	a	0.7	(0.37)	ab	439.5
<i>V. griseus</i>	86.5	(0.68)	a	86.9	(0.48)	a	412	2.06	(0.62)	a	0.09	(0.09)	b	618***

Results of Wilcoxon–Mann–Whitney tests (U) comparing percentage of seeds not dispersed or dispersed during flight between landscape permeability and straight path movement experiments for each bird species (*** $P < 0.001$, ** $P < 0.01$, * $P < 0.05$).

The percentage of seeds not dispersed and dispersed during flight are presented as the mean value (%) with standard error of the mean in parentheses. Different letters within movement methods represent species' differences using Dunn's Test post hoc comparisons ($\alpha = 0.05$) on Kruskal–Wallis analysis of the given variable between species.