Table S4. Mean number of seeds dispersed (SDE_Q) and mean relative percentage of total seeds dispersed (across experiments for all species; % Disp.) for the five study species; standard error of the mean is presented within parentheses. Thirty experiments per species by movement method. These experiments use *T. migratorius* physiological parameters (main text, Table 1) for all bird species.

	Permeability	Straight path			Permeability	Straight path		
Species	**SDEq**	**SDEq**		**U**	**% Disp.**	**% Disp.**		**U**
C. cristata	102.7 (5.74)	a 110.1 (5.39)	a	384	18.16 (1.04)	a 18.28 (0.87)	a	445.5
M. erythrocephalus	106.8 (5.83)	a 120.4 (7.28)	ab	376.5	18.65 (0.86)	a 19.88 (1.07)	ab	383.5
S. sialis	112.7 (6.9)	a 117.2 (6.12)	ab	408	19.88 (1.22)	a 19.39 (0.85)	ab	454
T. migratorius	124.4 (7.46)	a 138.8 (6.44)	b	331.5	21.59 (1.10)	a 22.99 (0.89)	b	360
V. griseus	123.6 (5.93)	a 118.1 (6.96)	ab	495	21.73 (0.98)	a 19.46 (1.00)	ab	560

Results of Wilcoxon–Mann–Whitney tests (U) comparing SDE_Q or proportion dispersed permeability and straight path movement experiments for each bird species (*** P<0.001, ** P<0.01, * P<0.05).
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.