

Supplementary table for:

Castorani, M. C. N., Reed, D. C., Raimondi, P. T., Alberto, F., Bell, T. W., Cavanaugh, K. C., Siegel, D. A., & Simons, R. D. Fluctuations in population fecundity drive variation in demographic connectivity and metapopulation dynamics. *Proc. R. Soc. B Biol. Sci.* (doi:10.1098/rspb.2016.2086)

Table S1. Summary of connectivity measures and results of model comparisons between two different methods of fecundity estimation. Fecundity was estimated using zero intercept regression or non-zero intercept regression fit by generalized least squares (see details in electronic supplementary materials, appendix S1). AIC model comparisons are described by the AIC values and ranked by AIC differences (Δ_i). The effect of each connectivity measure on the probability of patch occupancy is shown by the estimate of the standardized regression coefficient for the connectivity term.

Model	Fecundity estimated with zero intercept regression				Fecundity estimated with non-zero intercept regression			
	Standardized coefficient for connectivity term	AIC	Δ_i	Rank	Standardized coefficient for connectivity term	AIC	Δ_i	Rank
0	NA	7187.7	93.5	7	NA	7187.7	84.3	7
1	0.56	7177.3	83.0	6	0.74	7171.7	68.3	6
2	0.53	7175.0	80.8	5	0.66	7171.0	67.7	5
3	0.76	7143.0	48.7	4	0.81	7143.9	40.6	4
4	0.83	7130.9	36.6	3	0.88	7130.5	27.1	3
5	1.01	7107.9	13.6	2	1.09	7113.6	10.2	2
6	1.08	7094.3	0	1	1.12	7103.4	0	1