

Appendix 1. Supplemental information on sample sizes, variation in hatching dates, nestling survival, and mass for Barn *Hirundo rustica*, Cliff *Petrochelidon pyrrhonota*, and Tree Swallows *Tachycineta bicolor*, and variation in insect abundance (daily, IAM, IAB1, IAMB) during our study.

Table A1.1. Summary of the number of nests, mean \pm SE hatching dates, and nestling mass, and nestling survival for each species and the number of insect samples and mean \pm SE insect abundance by site.

	variable†	BEFV	JO	WE	total
Barn	N	2	11	17	30
	mean \pm SE HD (range)	52.0 \pm 3.0 (49 – 55)	55.6 \pm 2.2 (47 – 74)	52.7 \pm 1.5 (42 – 63)	53.7 \pm 1.1 (42 – 74)
	surviving nestlings (%)	10/10 (100.0)	39/39 (100.0)	71/75 (94.7)	120/124 (96.8)
	mean \pm SE nestling mass (range)‡	18.20 \pm 0.74 (13.0 – 21.0)	16.11 \pm 0.36 (10.5 – 20.0)	16.65 \pm 0.31 (6.0 – 21.0)	16.59 \pm 0.23 (6.0 – 21.0)
Cliff	N	–	25	26	51
	mean \pm SE HD (range)	–	51.5 \pm 0.8 (42 – 58)	55.3 \pm 1.1 (41 – 63)	53.4 \pm 0.7 (41 – 63)
	surviving nestlings (%)	–	63/83 (75.9)	47/85 (55.3)	110/168 (65.5)
	mean \pm SE nestling mass (range)‡	–	22.35 \pm 0.38 (12.5 – 28.0)	21.09 \pm 0.37 (11.5 – 26)	21.79 \pm 0.27 (11.5 – 28)
Tree	N	70	26	34	130
	mean \pm SE HD (range)	47.1 \pm 0.8 (39 – 66)	49.6 \pm 1.0 (41 – 60)	49.9 \pm 0.9 (41 – 66)	48.3 \pm 0.5 (39 – 66)
	surviving nestlings (%)	350/371 (94.3)	107/133 (80.5)	150/165 (90.9)	607/669 (90.7)
	mean \pm SE nestling mass (range)‡	22.42 \pm 0.10 (15.5 – 27.5)	22.35 \pm 0.22 (15.0 – 27.0)	21.89 \pm 0.16 (16.0 – 26.0)	22.28 \pm 0.08 (15.0 – 27.5)
Insect abundance	N	64	65	68	197
	mean \pm SE daily (range)	-0.55 \pm 0.06 (-1.62 – 0.56)	-0.70 \pm 0.08 (-2.30 – 0.69)	-0.78 \pm 0.07 (-2.15 – 0.42)	-0.68 \pm 0.04 (-2.30 – 0.69)
	mean \pm SE IAM (range)	-0.33 \pm 0.02 (-0.73 – -0.09)	-0.42 \pm 0.02 (-0.70 – -0.08)	-0.46 \pm 0.01 (-0.69 – -0.21)	-0.41 \pm 0.01 (-0.73 – -0.08)
	mean \pm SE IAB1 (range)	-0.33 \pm 0.02 (-0.73 – -0.09)	-0.42 \pm 0.02 (-0.91 – -0.04)	-0.45 \pm 0.01 (-0.69 – -0.24)	-0.40 \pm 0.01 (-0.91 – -0.04)
	mean \pm SE IAMB (range)	-0.47 \pm 0.04 (-1.03 – 0.60)	-0.64 \pm 0.05 (-1.43 – 0.01)	-0.60 \pm 0.05 (-1.35 – 0.13)	-0.57 \pm 0.03 (-1.43 – 0.60)

† Abbreviations: N = number of nests or daily samples, HD = hatching date, IAM = mean insect abundance up to and including day 12; and IAB1 = mean insect abundance on and one day prior to banding day; IAMB = mean insect abundance up to and including banding day.

‡ Does not include nestling mass for nests where the mean nestling mass was than two standard deviations below the mean for all nests.