

Supplementary material

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Table A1. Model selection table. The number of nests was log-transformed to obtain more normal distribution. In the models the two explanatory variables are included without (+) or with (*) interaction between them. Voles.spr= vole density index in the current spring and voles.prev.au= vole density index in the autumn preceding the breeding season.

Response	Model	df	logLik	AICc	Δ AICc	weight
Nests per 100 boxes (log)	species + voles.prev.au	4	0.17	8.96	0.000	0.617
	species × voles.prev.au	5	1.04	9.92	0.959	0.382
	species × voles.spr	5	-5.04	22.09	13.132	0.001
	species + voles.spr	4	-6.72	22.73	13.773	0.001
	(Null model)	2	-9.91	24.18	15.222	0.000
Mean laying date	species × voles.prev.au	5	-122.49	256.99	0.000	0.564
	species + voles.prev.au	4	-124.26	257.82	0.830	0.373
	species + voles.spr	4	-126.84	262.97	5.984	0.028
	(Null model)	2	-129.56	263.48	6.490	0.022
	species × voles.spr	5	-126.27	264.54	7.551	0.013
S.D. laying date	species × voles.spr	5	-100.55	213.10	0.000	0.875
	species + voles.spr	4	-104.08	217.45	4.354	0.099
	species + voles.prev.au	4	-105.70	220.69	7.588	0.020
	species × voles.prev.au	5	-105.64	223.28	10.183	0.005
	(Null model)	2	-112.82	230.01	16.911	0.000
Mean clutch size	species + voles.spr	4	-25.52	60.32	0.000	0.795
	species × voles.spr	5	-25.52	63.03	2.709	0.205

	species + voles.prev.au	4	-35.38	80.04	19.721	0.000
	species × voles.prev.au	5	-34.75	81.49	21.167	0.000
	(Null model)	2	-52.80	109.97	49.645	0.000
Mean no. of fledglings	species + voles.spr	4	-45.19	99.67	0.000	0.778
	species × voles.spr	5	-45.10	102.20	2.528	0.220
	species + voles.prev.au	4	-51.49	112.28	12.604	0.001
	species × voles.prev.au	5	-50.82	113.64	13.967	0.001
	(Null model)	2	-70.24	144.85	45.179	0.000