

Myrmecological News	27	Digital supplementary material
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Digital supplementary material to

MYCZKO, Ł., DYLEWSKI, Ł., MITRUS, S. & SPARKS, T.H. 2018: Invasive Northern Red Oaks benefit *Temnothorax crassispinus* (Hymenoptera: Formicidae) ant colonies. – Myrmecological News 27: 25-31.

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Table S1. Best generalized linear mixed models determining factors affecting the number of *T. crassispinus* colonies in plots. The coefficient of determination (R^2), the degrees of freedom (df), the log-likelihood (logLik), Akaike information criterion score (AICc), the difference between the given model and the most parsimonious model ($\Delta AICc$) and the Akaike weight (weight) are listed.

Models component	R2	df	logLik	AICc	$\Delta AICc$	weight
Number of all ant colonies						
dist.oak × dist.anoth.oak × no.acorn.hol × oak.species × per.undergrowth	0.54	7	-125.80	266.81	0.00	0.04
dist.oak × dist.anoth.oak × no.acorn.hole × oak.species × per.undergrowth × no.acorn	0.51	8	-124.76	267.11	0.30	0.03
dist.oak × dist.anoth.oak × no.acorn.hole × oak.species × no.acorn	0.50	7	-126.29	267.80	0.99	0.02
dist.oak × dist.anoth.oak × no.acorn.hole × per.open.area × oak.species × per.undergrowth	0.52	8	-125.16	267.90	1.09	0.02
dist.oak × dist.anoth.oak × no.acorn.hole × dbh.tree × per.undergrowth	0.41	8	-125.22	268.03	1.21	0.002
dist.oak × dist.anoth.oak × no.acorn.hole × oak.species × per.understory × per.undergrowth	0.54	8	-125.53	268.64	1.83	0.01
dist.oak × dist.anoth.oak × no.acorn.hole × per.open.area × per.undergrowth × no.acorn	0.42	9	-124.33	268.65	1.84	0.01
Number of ant colonies in acorns						
dist.oak × dist.anoth.oak × no.acorn.hole × oak.species × no.acorn	0.51	7	-112.54	240.30	0.00	0.03
dist.anoth.oak × no.acorn.hole × oak.species × no.acorn	0.27	6	-113.84	240.58	0.28	0.02
dist.oak × dist.anoth.oak × no.acorn.hole × oak.species × per.undergrowth × no.acorn	0.52	8	-111.57	240.72	0.43	0.02
dist.anoth.oak × no.acorn.hole × oak.species × per.undergrowth × no.acorn	0.53	7	-112.85	240.91	0.62	0.02
dist.oak × no.acorn.hole × oak.species × no.acorn	0.52	6	-114.22	241.35	1.05	0.02
dist.oak × no.acorn.hole × oak.species × per.undergrowth × no.acorn	0.48	7	-113.27	241.75	1.46	0.01
dist.oak × dist.anoth.oak × no.acorn.hole × per.open.area × oak.species × no.acorn	0.51	8	-112.16	241.90	1.60	0.01
dist.anoth.oak × no.acorn.hole × oak.species × per.understory × no.acorn	0.52	7	-113.38	241.98	1.68	0.01
dist.oak × dist.anoth.oak × no.acorn.hole × oak.species × per.undergrowth	0.56	7	-113.43	242.08	1.78	0.01

dist.anoth.oak × no.acorn.hole × oak.species × per.understory × per.undergrowth × no.acorn	0.53	8	-112.26	242.10	1.80	0.01
dist.oak × dist.anoth.oak × no.acorn.hole × per.open.area × oak.species × per.undergrowth × no.acorn	0.52	9	-111.09	242.18	1.88	0.01
dist.anoth.oak × oak.species × no.acorn	0.26	5	-115.78	242.19	1.90	0.01
dist.oak × dist.anoth.oak × no.acorn.hole × oak.species × per.undergrowth × no.acorn	0.51	8	-112.35	242.28	1.98	0.01
dist.oak × dist.anoth.oak × no.acorn.hole × oak.species × no.stick × no.acorn	0.53	8	-112.35	242.28	1.98	0.01
Number of ant colonies with queens in acorns						
dist.anoth.oak × no.acorn.hole × oak.species × no.acorn	0.51	6	-99.17	211.24	0.00	0.05
dist.anoth.oak × no.acorn.hole × oak.species × per.undergrowth × no.acorn	0.51	7	-98.65	212.52	1.28	0.03
dist.oak × dist.anoth.oak × no.acorn.hole × oak.species × no.acorn	0.49	7	-98.80	212.81	1.57	0.02
dist.anoth.oak × no.acorn.hole × oak.species	0.55	5	-101.24	213.12	1.88	0.02
Number of ant colonies in sticks						
no.stick	0.06	3	-45.34	96.93	0.00	0.02
no.stick × per.undergrowth	0.16	4	-44.26	96.94	0.02	0.02
dist.oak × no.stick	0.24	4	-44.61	97.64	0.71	0.01
no.stick × dbh.tree	0.10	4	-44.64	97.70	0.77	0.01
dist.oak × no.stick × per.undergrowth	0.28	5	-43.61	97.86	0.93	0.01
per.open.area × no.stick	0.08	4	-44.76	97.94	1.01	0.01
per.open.area × no.stick × per.undergrowth	0.17	5	-43.68	98.00	1.07	0.01
no.stick × dbh.tree × per.undergrowth	0.18	5	-43.72	98.08	1.15	0.01
dist.anoth.oak × no.stick × per.undergrowth	0.28	5	-43.74	98.12	1.19	0.01
oak.species × no.stick × per.undergrowth	0.18	5	-43.76	98.17	1.24	0.01
dist.anoth.oak × no.stick	0.10	4	-44.89	98.21	1.28	0.01
oak.species × no.stick	0.07	4	-45.07	98.56	1.63	0.01
no.stick × per.understory	0.06	4	-45.15	98.73	1.80	0.01
no.stick × per.understory × per.undergrowth	0.18	5	-44.14	98.91	1.99	0.01