

Simao, M. C. M., Flory, S. L. and Rudgers, J. A. 2010. Experimental plant invasion reduces arthropod abundance and richness across multiple trophic levels. – *Oikos* 119: 1553–1562.

Appendix 1

Arthropod RTUs contributing >3% to compositional differences between invaded and control plots in nonlinear multi-dimensional scaling ordination (from SIMPER analysis). Data show means with SE and % contribution to the dissimilarity between treatments for each sampling date.

RTU	Order	Family	Genus/subfamily	Species	Trophic group	JUNE			% contribution to dissimilarity	
						Control	SE	Invaded		
654	Hymenoptera	Formicidae	<i>Monomorium</i>	<i>minimum</i> group	predator	11.3	3.06	5.9	1.92	12.7
395	Hemiptera	Aphididae			herbivore	7.5	1.72	7.4	4.19	10.5
170	Orthoptera	Tettigoniidae	<i>Conocephalus</i>	<i>strictus</i>	herbivore	7.8	1.57	6.4	0.95	7.5
415	Hemiptera	Pentatomidae	<i>Euschistus</i>	nymphs	herbivore	4.9	1.16	2.6	0.85	5.8
396	Hemiptera	Cicadellidae	Deltocephalinae		herbivore	3.0	0.93	1.1	0.35	4.0
492	Coleoptera	Cicadellidae	Deltocephalinae		predator	2.8	0.58	1.4	0.52	3.5
596	Hymenoptera	Formicidae	<i>Lasius</i>	<i>claviger</i> group	predator	2.2	1.13	1.0	0.48	3.3
20	Coleoptera	Phalacridae	<i>Olibrus</i>		pollen/fungivore	-	-	-	-	-
242	Coleoptera	Cantharidae	<i>Chauliognathus</i>	<i>pennsylvanicus</i>	predator	-	-	-	-	-
270	Hemiptera	Cicadellidae	<i>Dikraneura</i>	<i>abnormis</i>	herbivore	-	-	-	-	-

RTU	Order	Family	Genus/Subfamily	Species	Trophic group	SEPTEMBER			% contribution to dissimilarity	
						Control	SE	Invaded		
654	Hymenoptera	Formicidae	<i>Monomorium</i>	<i>minimum</i> group	predator	-	-	-	-	-
395	Hemiptera	Aphididae			herbivore	98.6	31.23	52.9	17.2	30.0
170	Orthoptera	Tettigoniidae	<i>Conocephalus</i>	<i>strictus</i>	herbivore	-	-	-	-	-
415	Hemiptera	Pentatomidae	<i>Euschistus</i>	nymphs	herbivore	-	-	-	-	-
396	Hemiptera	Cicadellidae	Deltocephalinae		herbivore	-	-	-	-	-
492	Coleoptera	Cicadellidae	Deltocephalinae		predator	-	-	-	-	-
596	Hymenoptera	Formicidae	<i>Lasius</i>	<i>claviger</i> group	predator	-	-	-	-	-
20	Coleoptera	Phalacridae	<i>Olibrus</i>		pollen/fungivore	45.9	8.87	10.8	3.1	16.8
242	Coleoptera	Cantharidae	<i>Chauliognathus</i>	<i>pennsylvanicus</i>	predator	15.1	1.09	4.0	2.25	4.9
270	Hemiptera	Cicadellidae	<i>Dikraneura</i>	<i>abnormis</i>	herbivore	1.3	0.47	7.9	1.7	3.5