

Borgström, P., Bommarco, R., Strebom, J. and Viketoft, M. 2018. Above- and belowground insect herbivores mediate the impact of nitrogen eutrophication on the soil food web in a grassland ecosystem. – Oikos doi: 10.1111/oik.04763

## Appendix 1

Table A1. Output from linear mixed models testing treatment effects on total nematode abundance, and abundances of the respective nematode feeding groups. Df = 1,49. \*\*\*  $p \leq 0.001$ ; \*\*  $p \leq 0.01$ ; \*  $p \leq 0.05$ ;  $\cdot$   $p \leq 0.06$ . N = nitrogen, A = aboveground herbivory, B = belowground herbivory.

RF = root-feeders, RH = roothair-feeders, BF = bacterial-feeders, FF = fungal-feeders, OM = omnivores.

	Total		RF		RH		BF		FF		OM	
	F	p	F	p	F	p	F	p	F	p	F	p
A	0.00	0.95	0.04	0.84	0.56	0.46	0.46	0.50	<b>8.85</b>	<b>0.005**</b>	1.05	0.31
B	0.29	0.60	0.76	0.39	0.94	0.34	0.10	0.75	0.21	0.65	<b>10.63</b>	<b>0.002***</b>
N	3.49	0.07	<b>7.09</b>	<b>0.01**</b>	0.29	0.59	1.60	0.21	<b>3.87</b>	<b>0.06<math>\cdot</math></b>	2.35	0.13
A $\times$ B	0.14	0.71	1.30	0.26	0.00	0.96	0.01	0.90	0.05	0.83	0.45	0.51
N $\times$ A	0.05	0.82	3.54	0.07	0.13	0.72	0.22	0.64	<b>3.87</b>	<b>0.05*</b>	0.23	0.63
N $\times$ B	0.65	0.43	0.25	0.62	0.00	0.97	0.09	0.76	2.80	0.10	0.11	0.74
N $\times$ A $\times$ B	2.00	0.16	<b>16.5</b>	<b>0.0002***</b>	<b>4.67</b>	<b>0.04*</b>	0.10	0.76	0.35	0.56	0.01	0.92

Table A2. Output from linear mixed models testing treatment effects on the abundances of the respective nematode feeding groups with a covariate (total plant biomass or forb biomass) added to the analysis.  $df = 1,48$ . \*\*\*  $p \leq 0.001$ ; \*\* $p \leq 0.01$ ; \* $p \leq 0.05$ ;  $\cdot p \leq 0.06$ . N = nitrogen, A = aboveground herbivory, B = belowground herbivory, RF = root-feeders, RH = roothair-feeders, BF = bacterial-feeders, FF = fungal-feeders.

Treatment	RF		RH		FF		BF		Treatment	FF	
	F	p	F	p	F	p	F	p		F	p
A	0.04	0.86	0.99	0.33	<b>9.77</b>	<b>0.003**</b>	0.51	0.48	A	<b>8.67</b>	<b>0.01**</b>
B	0.75	0.39	1.12	0.30	0.24	0.63	0.11	0.74	B	0.21	0.65
N	<b>6.98</b>	<b>0.01**</b>	0.47	0.49	<b>4.27</b>	<b>0.04*</b>	1.78	0.19	N	<b>3.79</b>	<b>0.06<math>\cdot</math></b>
A $\times$ B	0.96	0.33	0.00	0.97	0.01	0.94	0.09	0.77	A $\times$ B	0.00	1.00
N $\times$ A	<b>4.37</b>	<b>0.04*</b>	0.14	0.71	<b>4.96</b>	<b>0.03*</b>	0.06	0.80	N $\times$ A	3.24	0.08
N $\times$ B	0.00	0.97	0.08	0.77	<b>4.65</b>	<b>0.04*</b>	0.68	0.41	N $\times$ B	3.07	0.09
N $\times$ A $\times$ B	<b>12.43</b>	<b>0.001***</b>	<b>6.32</b>	<b>0.02*</b>	2.63	0.11	2.12	0.15	N $\times$ A $\times$ B	1.00	0.32
Total plant biomass	3.56	0.07	0.14	0.71	1.71	0.20	<b>4.95</b>	<b>0.03*</b>	Forb biomass	1.23	0.27