

Van De Velde, H., Nijs, I. and Bonte, D. 2016. Warming affects different components of plant-herbivore interaction in a simplified community but not net interaction strength. – Oikos

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Appendix 1

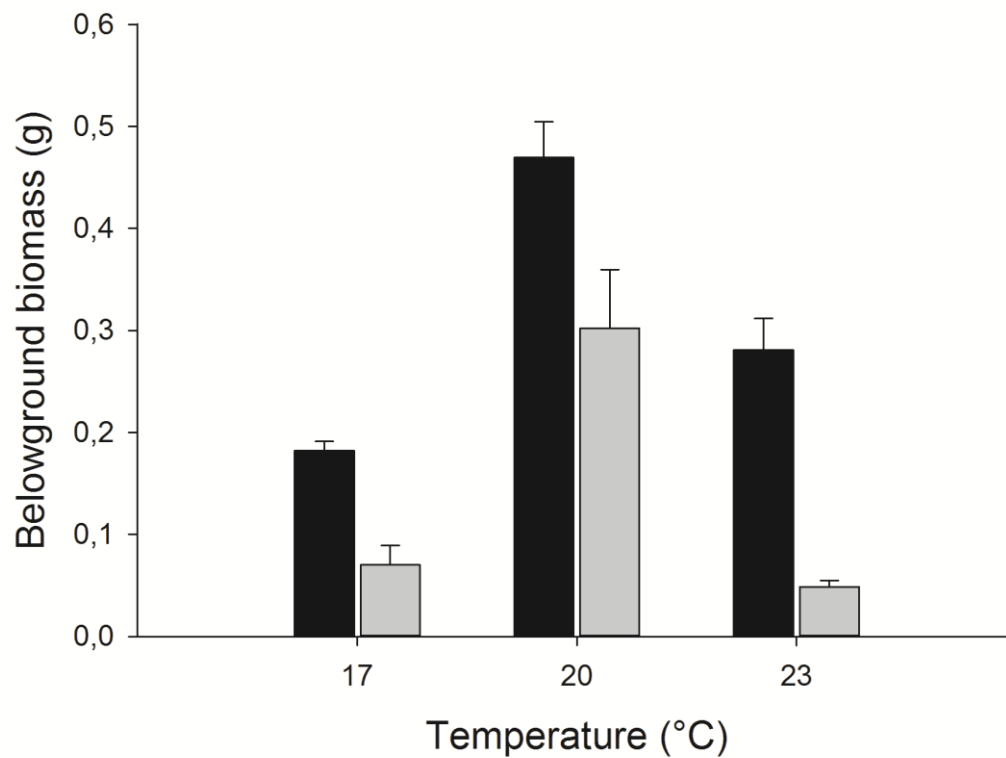


Figure A1. Effect of temperature and aphid infestation on belowground biomass of *Plantago lanceolata*. Mean \pm SE are indicated (all plant compositions combined). Black bars: controls and grey bars: aphid infestation.

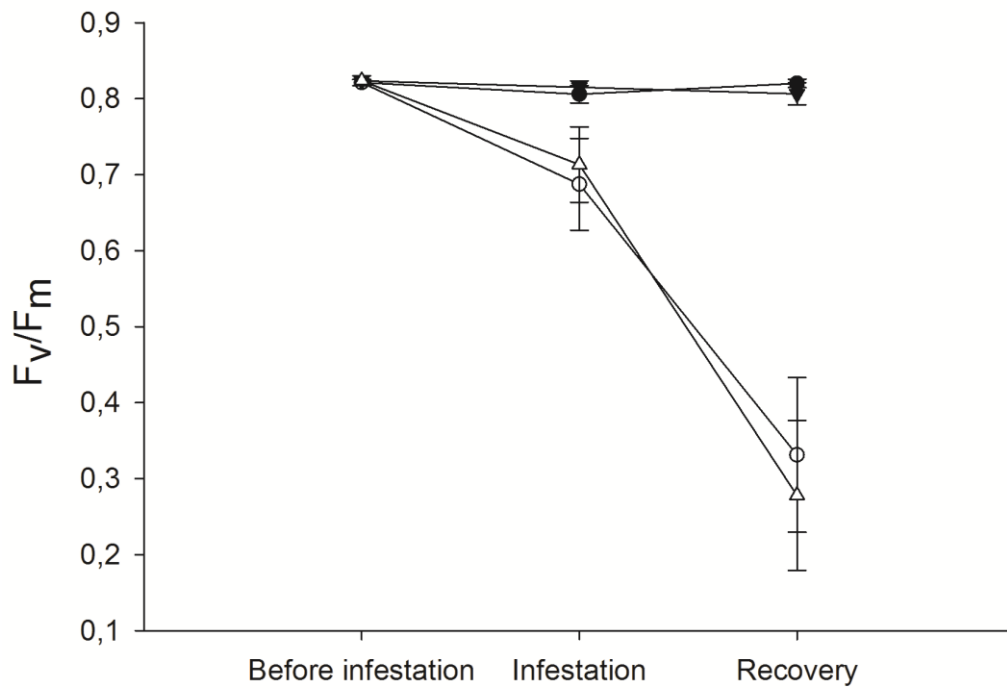


Figure A2. Effect of plant composition and aphid infestation on F_v/F_m of *Plantago lanceolata* before aphid infestation, just after aphid infestation and after recovery. Mean \pm SE are indicated. Plant communities consisted of monocultures of *P. lanceolata* and mixtures of *Lolium perenne* and *P. lanceolata*. F_v/F_m represents the maximum quantum yield of photosystem II. F_v = variable fluorescence, F_m = maximum fluorescence. Black circle = monocultures; white circle = monocultures + aphid infestation; black triangle = mixtures and white triangle = mixtures + aphid infestation.

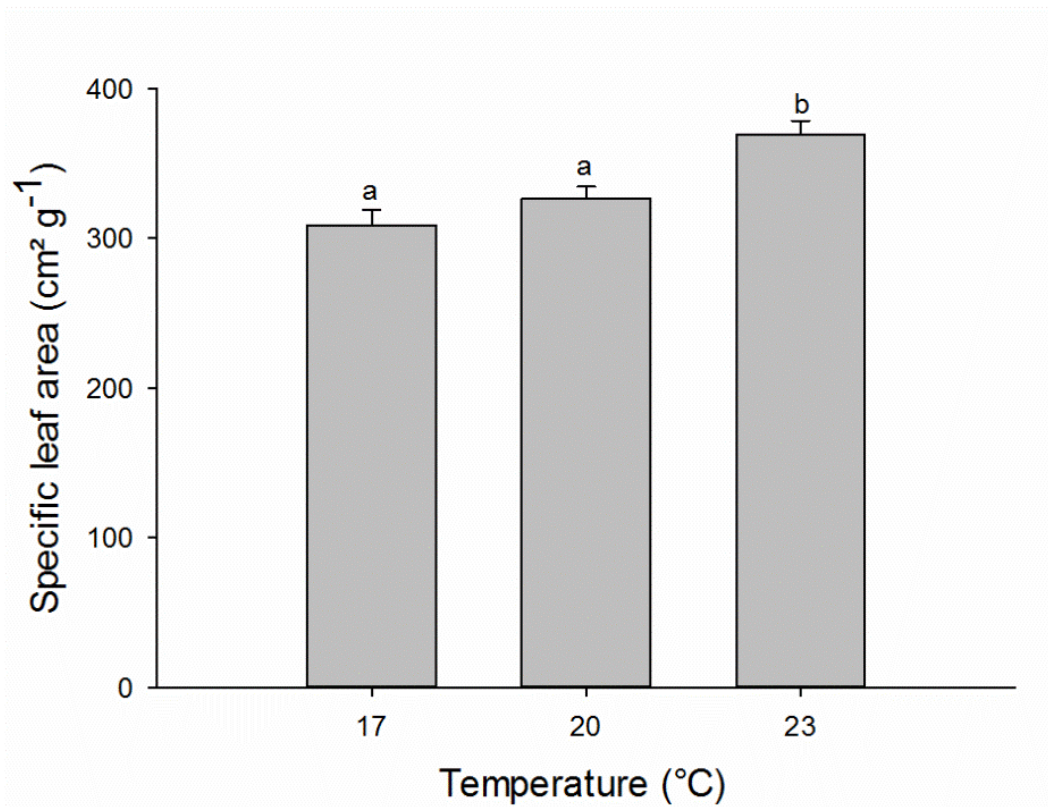


Figure A3. Effect of temperature on specific leaf area of *Plantago lanceolata* plants that did not receive aphids. Mean \pm SE are indicated (all plant compositions combined). Significant pairwise differences are indicated by different letters above the bars ($p < 0.05$).

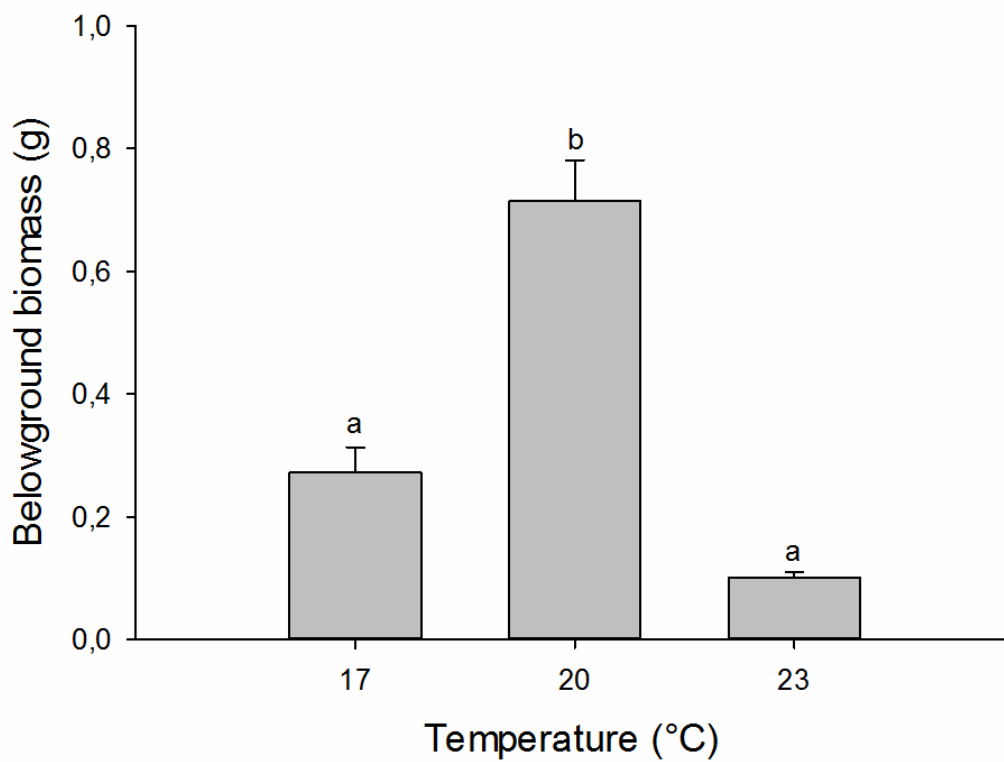


Figure A4. Effect of temperature on belowground biomass of *Lolium perenne*. Mean \pm SE are indicated (all plant compositions combined). Significant pairwise differences are indicated by different letters above the bars ($p < 0.05$).

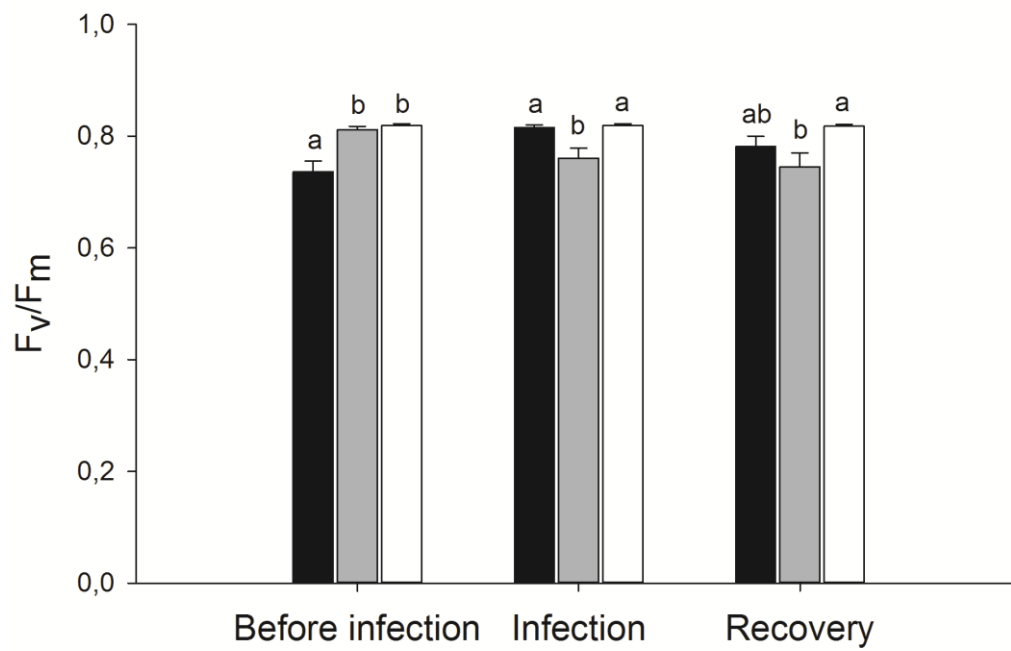


Figure A5. Effect of temperature on F_v/F_m of *Lolium perenne* before aphid infestation, just after aphid infestation and after recovery. Mean \pm SE are indicated (all plant compositions combined). Significant pairwise differences between temperature treatments are indicated by different letters above the bars ($p < 0.05$). Black bars = 17°C, grey bars = 20°C and white bars = 23°C.

Table A1. Partial slopes of the structural equation model presented in Fig. 1B. Plant communities consist of monocultures and mixtures of *Lolium perenne* and *Plantago lanceolata*. Moderate warming represents the effect of increasing temperature from 17°C to 20°C and high warming from 17°C to 23°C. p-values are presented in bold when significant (<0.05).

		Estimate	SE	Z-value	p-value
Live aboveground biomass <i>Plantago lanceolata</i> (Control)					
	Moderate warming	0.284	0.398	0.715	0.475
	High warming	-0.141	0.398	-0.353	0.724
	Plant composition	0.762	0.325	2.346	0.019
Leaf nitrogen					
	Moderate warming	-1.214	0.373	-3.259	0.001
	High warming	-0.261	0.373	-0.700	0.484
	Plant composition	-0.016	0.304	-0.053	0.957
Aphid population					
	Leaf nitrogen	0.130	0.168	0.775	0.438
	Live aboveground biomass <i>Plantago lanceolata</i> (Control)	0.219	0.161	1.362	0.173
	Live aboveground biomass <i>Lolium perenne</i>	0.289	0.167	1.731	0.083
	Aphid individuals	-0.626	0.177	-3.543	0.000
	Plant composition	-0.122	0.336	-0.364	0.716
Aphid individuals					
	Moderate warming	-1.785	0.296	-6.029	0.000
	High warming	-1.157	0.257	-4.51	0.000
	Plant composition	-0.186	0.208	-0.897	0.370
	Leaf nitrogen	0.111	0.125	0.891	0.373
Live aboveground biomass <i>Lolium perenne</i>					
	Moderate warming	-0.627	0.284	-2.206	0.027
	High warming	-1.614	0.284	-5.682	0.000
	Plant composition	-0.698	0.232	-3.009	0.003
Live aboveground biomass <i>Plantago lanceolata</i> (Aphids)					
	Leaf nitrogen	0.174	0.204	0.854	0.393
	Aphid population	0.219	0.187	1.175	0.240
	Plant composition	0.180	0.34	0.531	0.596
	Moderate warming	0.536	0.518	1.034	0.301
	High warming	0.234	0.421	0.556	0.579