

**Table S2. Simple linear regressions according to the hypotheses of processes. Bolds indicate a significant relationship between variables.**

Processes	Response variable	predictor variable	Coefficient ( $\beta$ )	R <sup>2</sup>	F	P-value
Hypotheses regarding resident species richness	Resident species richness	Mean temperature	0.43±0.090	0.138	22.51	<b>&lt;0.001</b>
		Understory vegetation	-0.08±0.202	0.001	0.162	0.688
		Overstory vegetation	0.25±0.196	0.011	1.671	0.198
		Habitat diversity	1.23±0.344	0.083	12.75	<b>&lt;0.001</b>
Hypotheses regarding migrant species richness	Migrant species richness	Mean temperature	-0.41±0.063	0.237	43.49	<b>&lt;0.001</b>
		Understory vegetation	0.43±0.147	0.057	8.508	<b>0.004</b>
		Overstory vegetation	0.70±0.134	0.164	27.4	<b>&lt;0.001</b>
		Habitat diversity	-0.86±0.258	0.073	11.07	<b>0.001</b>