

Supplementary information to the paper:

Effects of surrounding landscape on the performance of *Solidago canadensis* L. and plant functional diversity on heavily invaded post-Agricultural wastelands

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Biological Invasions

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Online Resource 3 Values of observed concavity coefficients calculated for generalised additive models describing the cover and biomass of *Solidago canadensis*, and functional diversity parameters of vegetation as functions of river net length, cover of settlements, and cover of agricultural areas. Abbreviations: Agri – contribution of agricultural areas, Settl – contribution of settlements, Riv – river net length in areas surrounding study plots. Numbers after hard spaces () included in predictor names are different buffers (100, 500, and 1000 m). Predictors in particular spatial scales were selected based on AICc values of preliminary single factor linear models.

Response variable	Predictor		
	Riv_500	Settl_1000	Agri_1000
<i>Solidago canadensis</i> cover [%]	0.075	0.338	0.575
	Riv_500	Settl_500	Agri_500
above ground biomass content [%]	0.045	0.667	0.617
	Riv_500	Settl_1000	Agri_500
leaf biomass content [%]	0.069	0.509	0.499
	Riv_1000	Settl_500	Agri_500
stem biomass content [%]	0.061	0.694	0.606
	Riv_500	Settl_1000	Agri_500
flower biomass content [%]	0.048	0.496	0.352
	Riv_500	Settl_100	Agri_1000
rhizome biomass content [%]	0.061	0.149	0.165