

Supplementary material for “The reintroduction of brown trout (*Salmo trutta* fario) in the Upper Scheldt River basin (Flanders, Belgium): success or failure?”

Table S1 – Overview of the different sites where the *in situ* experiments took place in the different years. X and Y coordinates are given in Belge Lambert 72.

Site	Watercourse	Description	City	X	Y	2019- 2020	2020- 2021	2021- 2022
1	Molenbeek	Van Temsche Molen	Zottegem	107349	173869		x	x
2	Zwalmolen	Rekegemstraat	Zwalm	105872	174468	x	x	
3	Zwalmbeek	Brusselsestraat	Brakel	108050	166437		x	x
4	Zwalm	Boembekemolen	Brakel	107352	170718	x		
5	Zwalm	Kasteeldreef	Brakel	108099	168300	x		
6	Zwalm	Berendries	Brakel	107735	169163	x		
7	Dorenbosbeek	Lange haag	Brakel	105805	162942	x		
8	Molenbeek	Hondenbos	Zottegem	109078	174315			x
9	Peerdestokbeek	Pottenberg	Brakel	103913	169354			x
10	Roosmeerbeek	Riebeke	Brakel	105903	165489			x

Figure S1 –Location of the experimental sites and the erosion potential of the surrounding areas. Information retrieved from Databank Ondergrond Vlaanderen (DOV) (<https://www.dov.vlaanderen.be/>).

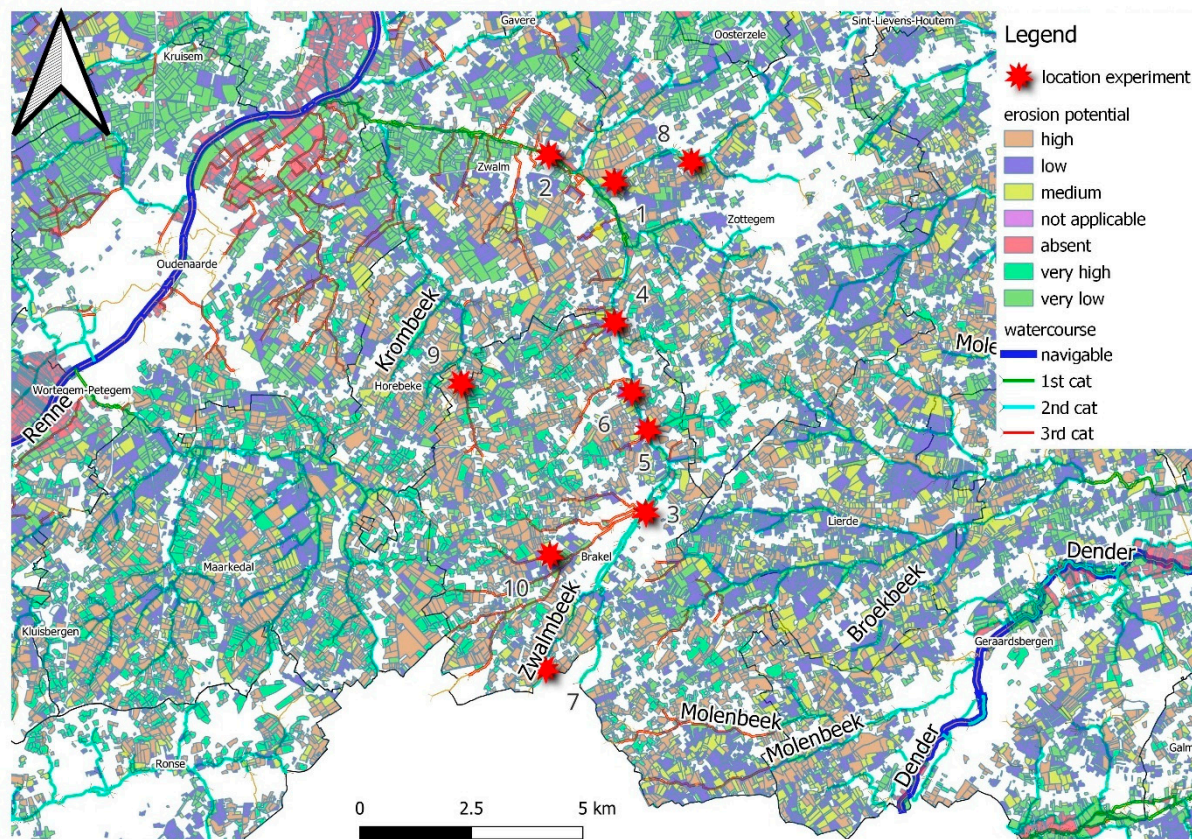


Table S2- Average values of the different environmental and biotic variables that were linked to the specific research sites. BBI: Belgian biotic index, EC20: conductivity, O2%: percentage oxygen saturation. NA: no data available.

Site	x	y	year	erosion class	suspended solids (mg/l)	Prati_O2	BBI	Water temperature (°C)	pH	EC20 (µS/cm)	O2%
1	107349	173869	2020	high	23	0.6	8	5.2	8	804	92
1	107349	173869	2021	high	20.45	0.6	8	8.8	8	748	95
2	105872	174468	2020	very low	13.8	2.73	7	6.2	7.8	795	77
2	105872	174468	2019	very low	13.5	2.84	7	5.8	7.7	808	64
3	108050	166437	2020	very low	19.3	2.96	7	5.8	7.8	703	84
3	108050	166437	2021	very low	27.5	1.99	7	8.4	7.8	561	88
4	107352	170718	2019	high	173	2.04	7	5.4	7.8	753	66
5	108099	168300	2019	high	42.7	2.4	7	5.6	7.8	769	77
6	107735	169163	2019	high	NA	NA	NA	6	7.8	776	77
7	105805	162942	2019	high	18	1.07	10	5.3	7.7	603	86
8	109078	174315	2021	medium	35.43	1.79	NA	8.7	7.8	725	87
9	103913	169354	2021	high	16.37	1.17	NA	9	7.9	770	89
10	105903	165489	2021	low	55.72	0.56	NA	8.8	7.7	595	93

Table S3 – Detailed statistics of the post-hoc multiple comparisons based on Wilcoxon's test.

Erosion classes	W-statistic	P-value
high-low	40.5	0.147
high-medium	10.5	0.093
high very low	53.5	0.018
low-medium	0.0	0.064
low-very low	4.5	0.053
medium-very low	14.5	0.664

Table S4 – Output of the linear regression model including, conductivity (EC20), suspended solids, Basic Prati index and erosion classes.

	Estimate	Std. Error	t-value	p-value
(Intercept)	252.2268	44.36663	5.685	7.43E-06
data_eggs\$basis.Pratibad	-9.83426	5.97463	-1.646	0.1128
data_eggs\$basis.Pratigood	-45.7936	10.70288	-4.279	0.00026
data_eggs\$basis.Pratiunsufficient	18.46835	12.4917	1.478	0.15229
data_eggs\$landbouwlow	-15.329	6.99518	-2.191	0.03837
data_eggs\$landbouwmedium	-16.3684	5.87773	-2.785	0.01029
data_eggs\$landbouwvery low	-5.57019	10.16419	-0.548	0.58874
data_eggs\$EC20	-0.32263	0.05748	-5.613	8.90E-06
data_eggs\$suspended solids	0.01541	0.05392	0.286	0.77748

Residual standard error: 8.273 on 24 degrees of freedom

Multiple R-squared: 0.8771, Adjusted R-squared: 0.8361

F-statistic: 21.41 on 8 and 24 DF, p-value: 3.764e-09