

Guimaraes-Souto et al. 2021. Do tropical riparian forests in the Cerrado Biome act as a buffer against the impacts of agriculture and livestock on benthic macroinvertebrate communities? *Limnetica* 40(2), 2021: 329-342

SUPPLEMENTARY INFORMATION

Table S1 Abundance and metrics of the community of benthic macroinvertebrates in streams of natural areas and classification as functional trophic groups. CF: collector-filter, CG: collector-gatherer, G: generalist, P: predator, SC: scraper and SH: shredder. *Abundância e métricas da comunidade de macroinvertebrados bentônicos em riachos de áreas naturais e classificação dos grupos tróficos funcionais. CF: filtrador coletor, CG: coletor catador, G: generalista, P: predador, SC: raspador e SH: fragmentador.*

Filo Arthropoda	Panga					Cascatinha					Uberaba					Marimbondo					Água fria				
	P1	P2	P3	P4	P5	P1	P2	P3	P4	P5	P1	P2	P3	P4	P5	P1	P2	P3	P4	P5	P1	P2	P3	P4	P5
Class Insecta																									
Order Blattodea (G)	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Order Coleoptera																									
Coccinellidae (P)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dytiscidae (P)	0	0	0	0	0	11	5	16	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Elmidae (G)	2	5	13	2	1	0	0	1	4		2	2	11	7	5	190	121	44	62	89	6	7	3	1	7
Gyrinidae (P)	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Hydrophilidae (G)	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lutrochidae (CG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Psephenidae (SC)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scirtidae (G)	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Order Diptera																									
Chironomidae (G)	427	127	330	114	196	94	299	161	167	37	24	27	150	81	155	281	98	170	183	118	76	374	511	211	521
Ceratopogonidae (P)	33	14	34	5	14	1	2	3	0	1	2	1	2	11	1	0	1	1	0	0	0	0	1	0	0
Culicidae (G)	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Dixidae (CG)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Empididae (P)	0	0	0	0	0	0	1	0	0	0	0	1	0	2	2	7	0	4	0	6	0	1	1	0	2

Calamoceratidae (SH)	4	1	0	1	17	0	2	2	0	0	0	3	0	0	0	0	2	0	1	0	0	0	0	0	
Glossomatidae (SC)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
Hydrobiosidae (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	20	2	5	2	4	0	0	1	0	1
Hydropsychidae (CF)	2	5	1	0	1	0	8	0	4	1	0	0	1	0	0	35	33	34	7	13	0	17	6	12	13
Hydroptilidae (G)	0	0	0	0	0	0	1	0	3	0	1	0	4	0	0	0	1	0	0	0	0	0	0	0	0
Leptoceridae (G)	0	12	1	1	11	12	4	5	0	2	0	2	8	0	0	1	0	0	0	0	0	0	3	1	0
Odontoceridae (SH)	0	0	0	1	0	1	0	1	0	0	9	4	6	1	1	0	0	0	5	2	0	0	0	0	0
Philopotamidae (SH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	5	0	1	0	0	0	0	0
Polycentropodidae (G)	3	1	13	1	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sericostomatidae (SH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Subfilo Hexapoda																									
Super Order Collembola (CG)	1	13	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	2	0	0
Class Arachnida																									
Order Trombidiformes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydracarina (P)	1	4	2	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Filo Annelida																									
Class Hirudinea (P)	4	0	1	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Class Oligochaeta (CG)	101	34	29	14	25	6	33	5	0	1	0	0	0	0	1	0	0	2	0	5	0	0	3	0	1
Filo Mollusca																									
Class Bivalvia																									
Order Veneroidea																									
Cyrenidae (CF)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Class Gastropoda																									
Planorbidae (SC)	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Filo Platyhelminthes																									
Planariidae (P)	0	0	0	0	0	1	9	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Individuals number	677	261	519	228	535	180	594	260	268	70	59	54	258	163	174	1971	939	1124	476	675	137	497	602	313	613
Taxa richness	17	23	20	12	20	18	25	19	13	14	11	13	19	17	11	16	19	17	17	22	4	6	14	7	11
Shannon Diversity Index	1.25	1.97	1.42	1.33	1.62	1.8	1.6	1.61	1.28	1.77	1.65	1.88	1.6	1.77	0.57	1.73	1.67	1.62	1.79	1.85	0.87	0.73	0.61	0.83	0.59

Simpson © Index (1-D)	0.56	0.73	0.47	0.63	0.7	0.7	0.66	0.55	0.56	0.69	0.73	0.72	0.63	0.71	0.2	0.77	0.72	0.71	0.77	0.79	0.53	0.39	0.27	0.47	0.27
Equitability	0.44	0.63	0.57	0.54	0.54	0.62	0.5	0.6	0.5	0.67	0.69	0.73	0.54	0.62	0.24	0.63	0.57	0.57	0.63	0.6	0.63	0.41	0.23	0.43	0.25
% EPT	12.6	14.7	15.3	26	33.5	20	8.05	13.9	7.9	11.4	32.2	21.7	26	16.4	4.4	26.5	21.3	23.6	26.4	23.2	0	3.31	1.63	4.57	2.54
% Chironomidae	63.1	48.7	63.6	50	36.6	52.2	50.3	61.9	62.3	52.9	40.7	50	63.1	49.7	89.1	14.3	10.4	15.1	38.4	17.5	55.5	75.3	84.9	67.4	85

Table S2 Abundance and metrics of the community of benthic macroinvertebrates in streams of pasture areas and classification as functional trophic groups. CF: collector-filterer, CG: collector-gatherer, G: generalist, P: predator, SC: scraper and SH: shredder. *Abundância e métricas da comunidade de macroinvertebrados bentônicos em riachos de áreas de pastagem e classificação dos grupos tróficos funcionais. CF: coletor-filtrador, CG: coletor catador, G: generalista, P: predador, SC: raspador e SH: fragmentador.*

Filo Arthropoda	Capim Branco					Corredeira					Cabeceira do Letreiro				
	P1	P2	P3	P4	P5	P1	P2	P3	P4	P5	P1	P2	P3	P4	P5
Class Insecta															
Order Blattodea (P)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Order Coleoptera															
Dytiscidae (P)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Elmidae (G)	106	43	83	85	79	23	3	27	17	9	2	5	11	5	1
Gyrinidae (P)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Hydrophilidae (G)	0	0	0	0	0	0	0	0	0	0	2	0	0	0	4
Ptilodactylidae (SH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Psephenidae (SC)	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Scirtidae (G)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Order Diptera															
Chironomidae (G)	524	133	287	538	86	55	55	174	160	32	193	344	325	146	272
Ceratopogonidae (P)	7	4		1		0	0	0	1	2	2	3	1	3	4
Culicidae (G)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
Dixidae (CG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Empididae (P)	0	0	2	0	0	5	1	12	4	2	0	3	0	1	3
Ephydriidae (G)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Psycodidae (CG)	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
Simuliidae (CF)	1	0	11	34	15	54	28	104	5	2	1	16	0	6	8
Stratiomyidae (CG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tabanidae (P)	0	0	0	1	0	0	0	2	0	0	1	0	0	0	0
Thaumaleidae (SC)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
Tipulidae (G)	0	0	0	0	0	0	0	0	0	0	1	1	0	7	14

Order Ephemeroptera

Baetidae (CG)	0	2	1	5		1	3	6	9	5	18	45	36	21	47
Caenidae (CG)	0	0	0	0	0	0	0	0	2	0	0	0	0	4	1
Eutyplociidae (CG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptohyphidae (CG)	15	19	5	3	6	0	0	0	0	0	5	1	1	3	5
Leptophlebiidae (CG)	0	0	1	0	0	0	0	0	0	1	2	8	5	8	4
Oligoneuridae (CF)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Order Hemiptera

Belostomatidae (P)	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1
Gerridae (P)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Naucoridae (P)	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Veliidae (P)	3	0	3	0	3	0	0	0	1	1	0	1	0	2	9
Order Lepidoptera (SH)	0	0	0	0	0	2	0	2	0	0	2	0	0	0	0
Order Megaloptera (P)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Order Odonata

Aeshnidae (P)	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Calopterygidae (P)	1	1	1	3	12	1	0	1	0	1	0	0	0	0	1
Coenagrionidae (P)	5	2	0	0	5	0	0	0	1	0	3	0	0	1	0
Corduliidae (P)	0	0	0	0	0	0	0	0	0	0	1	0	0	2	2
Gomphidae (P)	1	0	0	0	0	0	0	0	0	0	0	2	2	2	4
Libellulidae (P)	1	1	3	7	0	1	0	0	4	1	2	2	1	0	0
Protoneuridae (P)	1	12	1	2	0	0	0	0	0	0	0	0	1	0	0

Order Plecoptera

Perlidae (P)	2	0	4	7	0	0	1	0	0	0	2	9	5	5	9
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Order Trichoptera

Calamoceratidae (SH)	0	0	0	0	0	0	0	0	3	1	0	0	0	2	0
Hydropsychidae (CF)	145	12	331	406	81	8	9	9	3	3	4	22	1	22	21
Hydroptilidae (G)	5	8	9	2	6	0	0	1	0	0	0	0	0	0	0
Leptoceridae (G)	0	0	0	0	0	0	0	3	0	0	0	0	4	0	0
Odontoceridae (SH)	1	0	0	0	0	0	1	0	2	2	0	1	1	0	5

Philopotamidae (CF)	228	7	38	164	15	0	0	0	0	0	0	0	0	1	0
Polycentropodidae (G)	0	2	1	13	1	0	0	0	0	0	0	0	0	0	0
Subfilo Hexapoda															
Super Order Collembola (CG)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Class Arachnida															
Order Trombidiformes															
Hydracarina (P)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Filo Annelida															
Class Hirudinea (P)	13	3	1	0	1	0	0	0	4	0	0	0	2	1	0
Class Oligochaeta (CG)	93	145	8	40	81	8	1	8	17	2	6	4	23	14	0
Filo Mollusca															
Class Bivalvia															
Order Veneroidea															
Cyrenidae (CF)	15	147	25	8	410	0	0	0	0	0	0	0	3	0	20
Class Gastropoda															
Planorbidae (SC)	2	4	0	0	6	0	0	0	0	0	0	0	0	0	0
Thiaridae (SC)	6	13	0	0	42	0	0	0	0	0	0	0	0	0	0
Filo Platyhelminthes															
Planaridae (P)	93	33	23	93	102	2	0	0	0	1	1	1	0	1	1
Individuals number	1268	591	839	1413	952	163	102	351	236	66	252	471	424	257	442
Taxa richness	22	19	21	19	18	14	9	14	18	16	21	20	18	21	24
Shannon Diversity Index	1.83	2.02	1.623	1.72	1.93	1.707	1.291	1.437	1.387	1.93	1.139	1.161	1.014	1.77	1.635
Simpson © Index (1-D)	0.766	0.82	0.7134	0.75	0.77	0.75	0.624	0.6577	0.5266	0.73	0.4064	0.453	0.401	0.657	0.6028
Equitability (J)	0.592	0.68	0.5331	0.58	0.67	0.647	0.588	0.5445	0.4798	0.7	0.374	0.388	0.351	0.581	0.5144
% EPT	31.23	8.46	46.484	42.5	11.4	5.521	13.73	5.4131	8.0508	18.2	12.302	18.26	12.5	25.68	20.814
% Chironomidae	41.32	22.5	34.207	38.1	9.03	33.74	53.92	49.573	67.797	48.5	76.587	73.04	76.65	56.81	61.538

Table S3 Abundance and metrics of the community of benthic macroinvertebrates in streams of agricultural areas and classification as functional trophic groups. CF: collectors-filters, CG: collector-gatherer, G: generalist, P: predator, SC: scraper and SH: shredder. *Abundância e métricas da comunidade de macroinvertebrados bentônicos em riachos de áreas agrícolas e classificação dos grupos tróficos funcionais. CF: filtrador coletor, CG: coletor catador, G: generalista, P: predador, SC: raspador e SH: fragmentador.*

Filo Arthropoda	Fortaleza					Bugre					Cassu					Omar Mamede					Fortaleza II				
	P1	P2	P3	P4	P5	P1	P2	P3	P4	P5	P1	P2	P3	P4	P5	P1	P2	P3	P4	P5	P1	P2	P3	P4	P5
Class Insecta																									
Order Blattodea (G)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Order Coleoptera																									
Dytiscidae (P)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0
Elmidae (G)	37	19	14	16	64	38	39	7	4	8	29	36	19	11	31	16	1	16	0	8	7	3	4	0	0
Gyrinidae (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
Hydrophilidae (G)	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	1	0	0	0	0
Lutrochidae (CG)	0	0	0	0	1	0	0	0	0	0	0	3	1	0	1	0	0	0	0	0	0	0	0	0	0
Noteridae (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Ptilodactylidae (SH)	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	0	2	8	0	0	0	0	0	0
Psephenidae (SC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scirtidae (G)	0	0	0	0	0	0	0	0	0	0	1	0	3	0	4	0	0	0	6	0	15	0	0	0	3
Order Diptera																									
Canacidae (SC)	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Chironomidae (G)	5	13	14	10	23	63	142	26	57	42	935	306	269	138	560	144	28	52	33	52	1066	422	374	632	755
Ceratopogonidae (P)	0	0	0	0	0	1	2	0	1	2	0	0	7	7	6	13	4	0	0	0	12	37	8	21	13
Culicidae (G)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0
Empididae (P)	0	0	0	0	0	1	2	1	0	2	6	12	1	2	5	2	2	2	0	2	0	0	0	2	3
Muscidae (P)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sciomyzidae (P)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simuliidae (CF)	0	3	1	0	0	1	0	0	0	0	0	9	3	0	6	0	0	0	0	0	134	13	8	69	395
Tabanidae (P)	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	3	0	2	0	0	5

Thaumaleidae (SC)	1	0	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	
Tipulidae (G)	0	1	2	0	2	2	1	0	1	1	1	11	3	5	3	5	6	3	3	2	9	4	1	0	2
Order Ephemeroptera																									
Baetidae (CG)	7	6	6	8	2	5	9	2	1	5	34	39	14	4	7	0	1	1	0	0	8	7	1	2	5
Caenidae (CG)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Leptohyphidae (CG)	0	0	0	0	0	6	3	1	0	4	48	75	25	12	30	0	0	0	0	0	0	2	0	0	0
Leptophlebiidae (CG)	2	0	0	0	0	1	1	2	0	1	15	10	6	6	17	5	6	4	0	22	0	1	0	0	1
Oligoneuridae (CF)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Order Hemiptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphididae (P)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Belostomatidae (P)	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	2	0	0	1	0	0	0	0	0
Corixidae (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	3	0
Gerridae (P)	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Naucoridae (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	1	0	0	0
Pleidae (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Veliidae (P)	0	0	0	0	1	3	1	0	1	1	0	1	0	0	2	0	1	0	0	2	0	0	0	0	0
Order Lepidoptera (SH)	0	0	0	0	2	1	1	1	0	1	0	0	0	0	0	11	0	11	1	2	3	3	1	12	3
Order Megaloptera (P)	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Order Odonata																									
Calopterygidae (P)	0	0	0	2	1	1	2	0	0	1	38	5	3	10	1	0	0	0	0	3	0	0	0	2	2
Coenagrionidae (P)	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2	2	0	1	6	
Corduliidae (P)	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gomphidae (P)	0	0	0	0	0	1	0	0	0	2	2	1	0	6	3	0	2	0	0	7	0	0	0	0	0
Libellulidae (P)	1	1	0	2	2	1	1	0	0	1	0	1	0	1	0	0	1	0	1	10	7	5	4	4	27
Protoneuridae (P)	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	2	1	0	0
Order Plecoptera																									
Perlidae (P)	10	8	13	3	10	2	8	6	2	1	5	38	1	6	16	8	0	13	8	2	0	0	0	0	2
Order Trichoptera																									
Calamoceratidae (SH)	0	0	0	0	0	0	0	0	0	0	6	1	1	5	4	0	0	5	0	1	0	0	0	0	0

Glossomatidae (SC)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Helicopsychidae (SC)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrobiosidae (P)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydropsychidae (CF)	50	37	29	8	17	9	1	5	2	6	11	20	8	7	11	0	0	1	14	6	5	37	11	35	47
Hydroptilidae (G)	0	0	0	0	1	0	4	0	0	0	1	12	2	1	0	0	0	1	0	0	1	1	1	3	4
Leptoceridae (G)	0	1	0	0	0	0	0	2	1	0	1	3	2	6	28	5	6	5	0	5	0	0	0	0	0
Odontoceridae (SH)	0	0	1	0	0	2	2	0	1	4	4	0	0	1	3	2	2	1	0	1	1	2	4	7	1
Philopotamidae (SH)																							1		
Polycentropodidae (G)	0	0	0	0	2	0	0	0	0	0	0	2	0	1	0	1	0	0	0	0	1	2	1	1	1
Subfilo Hexapoda																									
Super Order Collembola (CG)	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0
Hydracarina (P)	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	4	6	1	18	2
Filo Annelida																									
Class Hirudinea (P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	2
Class Oligochaeta (CG)	4	1	2	1	9	11	19	7	10	8	0	20	5	5	3	7	7	10	3	5	114	45	26	33	98
Filo Mollusca																									
Class Gastropoda																									
Cyrenidae (CF)	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Filo Platyhelminthes																									
Planariidae (P)	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Individuals number	119	93	82	50	137	151	242	61	82	90	1165	612	378	239	744	224	69	128	78	133	1396	609	454	848	1377
Taxa richness	11	13	9	8	17	20	20	12	12	17	25	25	22	24	23	16	14	16	10	18	20	24	21	19	21
Shannon Diversity Index	1.6	1.8	1.74	2	2	1.9	1.544	1.9	1.2	2	0.98	1.92	1.3	1.771	1.062	1.33	2.01	1.9	1.76	2.144	0.95	1.34	0.877	1.1	1.3
Simpson © Index (1-D)	0.71	0.8	0.78	0.8	0.7	0.7	0.6202	0.77	0.5	0.75	0.351	0.72	0.5	0.6542	0.4271	0.572	0.7948	0.79	0.758	0.8008	0.401	0.51	0.3166	0.433	0.61
Equitability (J)	0.66	0.7	0.79	0.9	0.6	0.6	0.5153	0.76	0.49	0.71	0.305	0.6	0.4	0.5903	0.3799	0.538	0.7792	0.735	0.762	0.7419	0.317	0.42	0.2881	0.374	0.426
%EPT	58	57	59.8	38	23	17	11.57	29.5	8.54	23.3	10.9	32.8	16	20.502	15.591	9.375	21.739	24.22	28.21	27.82	1.146	8.54	4.4053	5.778	4.43
% Chironomidae	4.2	14	17.1	20	16	42	58.678	42.6	69.5	46.7	80.26	50	71	57.741	75.269	64.29	40.58	40.63	42.31	39.098	76.36	69.3	82.379	74.53	54.83

