

Appendix 1. Macroinvertebrate taxa and abundances collected at Sites 1–6 in the Capira stream from January to August 2007. Taxa used in the non-metric multidimensional scaling (NMS) are marked with an asterisk.

Order	Family	Genus	Sampling sites						
			1	2	3	4	5	6	
Ephemeroptera	Baetidae	Baetidae	0	0	1	0	0	0	
		* <i>Baetis</i>	21	97	64	56	55	125	
		* <i>Baetodes</i>	5	26	35	3	0	81	
		* <i>Camelobaetidius</i>	0	63	2	3	9	4	
		* <i>Cloeodes</i>	2	68	64	43	20	25	
		* <i>Mayobaetis</i>	2	51	25	38	30	35	
		* <i>Caenis</i>	0	219	274	267	105	273	
		Caenidae							
		Euthyphlociidae	<i>Euthyphlocia</i>	3	0	0	0	0	0
		Heptageniidae	<i>Stenonema</i>	1	0	0	0	3	0
	Leptohyphidae	<i>Asioplax</i>	0	3	0	0	1	0	
		* <i>Leptohyphes</i>	66	301	382	149	320	84	
		* <i>Tricorythodes</i>	30	465	410	902	1063	164	
		* <i>Vacuperinus</i>	0	26	64	46	154	10	
		Leptophlebiidae	* <i>Farrodes</i>	126	194	356	199	250	445
			<i>Hagenulopsis</i>	0	0	0	1	2	0
			* <i>Thraulodes</i>	1	9	22	9	5	28
			<i>Ulmeritoides</i>	0	0	0	0	2	0
		Polymitarcidae	<i>Campsurus</i>	0	0	0	1	0	0
		Plecoptera Trichoptera	Perlidae	* <i>Anacroneuria</i>	12	6	0	0	0
	* <i>Phylloicus</i>			12	23	48	16	70	19
	Calamoceratidae		<i>Mexotrichia</i>	0	0	0	1	0	0
			<i>Mortoniella</i>	0	4	2	1	2	0
Glossosomatidae	* <i>Protoptila</i>		0	167	16	32	28	1	
	<i>Helicopsyche</i>		6	2	1	0	0	1	
Helicopsychidae	<i>Calopsyche</i>		3	0	0	0	0	0	
	<i>Leptonema</i>		14	0	0	0	0	0	
Hydropsychidae	* <i>Macronema</i>		1	52	49	18	24	104	
	* <i>Smicridea</i>		40	144	45	8	30	85	
Hydroptilidae	<i>Mayatrichia</i>		0	0	0	0	1	0	
	* <i>Neotrichia</i>		0	18	0	5	18	45	
	<i>Ochrotrichia</i>		0	0	0	0	1	0	
	<i>Oxyethira</i>		0	0	0	1	1	0	
	* <i>Nectopsyche</i>		3	50	34	20	14	9	
Leptoceridae	* <i>Oecetis</i>		0	15	12	2	8	0	
	<i>Triplectides</i>		0	0	5	0	1	0	
	<i>Marilia</i>		0	4	0	0	0	0	
Philopotamidae	* <i>Chimarra</i>		9	33	49	1	13	54	
Polycentropodidae	* <i>Polycentropus</i>		1	9	2	23	27	10	
Xyphocentronidae	<i>Xyphocentron</i>		0	4	0	2	0	2	
Diptera	Ceratopogonidae		*Ceratopogoninae	6	131	9	68	32	13
			Forcipomyiinae	1	0	0	0	0	1
	Chironomidae	*Chironomini	376	1201	649	1920	1125	795	
		*Orthoclaadiinae	327	487	105	82	82	126	
		*Tanypodinae	107	623	397	728	885	269	
		*Tanytarsini	22	128	68	108	65	99	
	Culicidae	Culicidae	0	2	0	0	0	0	
	Empididae	Empididae	3	5	2	0	1	3	
	Ephydriidae	Ephydriidae	0	0	0	0	3	0	
	Muscidae	Muscidae	1	1	0	4	0	0	
	Psychodidae	<i>Maruina</i>	5	2	0	0	0	1	
	Simuliidae	* <i>Simulium</i>	101	42	53	1	1	25	
	Stratiomyidae	<i>Odontomyia</i>	0	0	1	1	0	0	
	Tabanidae	<i>Chrysops</i>	1	0	0	1	0	0	
	Tipulidae	<i>Hexatoma</i>	2	1	1	7	4	4	
		<i>Limonia</i>	2	0	0	0	0	0	
		Limoniinae 1	0	2	0	0	0	0	
		Limoniinae 2	0	0	0	1	0	0	
		<i>Molophilus</i>	1	0	0	0	0	0	
		<i>Tipula</i>	2	0	0	0	0	0	
	Tipulidae (pupa)		0	1	0	0	0	0	

Appendix 1. (Continued).

Order	Family	Genus	Sampling sites					
			1	2	3	4	5	6
Odonata	Calopterygidae	<i>Hetaerina</i>	3	5	5	0	3	1
	Coenagrionidae	* <i>Argia</i>	2	75	55	41	56	97
		* <i>Nehalenia</i>	0	0	1	6	25	10
	Gomphidae	<i>Epigomphus</i>	3	1	1	0	3	1
		* <i>Erpetogomphus</i>	0	4	3	10	35	5
		<i>Perigomphus</i>	0	4	8	0	0	0
		<i>Phyllocycla</i>	0	0	0	2	2	0
		<i>Phyllogomphoides</i>	0	3	1	0	0	4
		* <i>Progomphus</i>	0	4	3	4	19	4
	Lestidae	<i>Lestes</i>	0	1	0	0	1	2
	Libellulidae	* <i>Brechmorhoga</i>	2	12	23	33	17	4
		* <i>Macrothemis</i>	1	26	88	43	55	4
	Megapodagrionidae	* <i>Heteragrion</i>	30	9	0	2	1	20
	Platystictidae	<i>Palaemnema</i>	0	1	1	0	1	2
	Polythoridae	<i>Miocora</i>	2	0	0	0	0	0
	Coleoptera	Curculionidae	Curculionidae	1	0	0	0	0
Dytiscidae		Dytiscidae	3	0	0	0	1	0
Dryopidae		Dryopidae	1	0	0	0	0	0
Elmidae		* <i>Austrolimnius</i>	0	34	39	59	17	7
		<i>Cylloepus</i>	0	0	2	2	12	0
		<i>Disersus</i>	8	0	0	0	0	0
		* <i>Heterelmis</i>	42	13	24	2	12	10
		* <i>Hexacylloepus</i>	7	0	1	3	52	1
		<i>Hexanchorus</i>	1	0	0	0	0	0
		* <i>Macrelmis</i>	2	45	52	17	39	17
		<i>Microcylloepus</i>	0	0	0	0	0	1
		<i>Neocylloepus</i>	13	4	2	0	0	0
		* <i>Neoelmis</i>	5	114	126	105	156	51
		<i>Phanocerus</i>	9	0	1	0	0	0
		<i>Stenhelmoidea</i>	0	0	1	0	0	0
		<i>Xenelmis</i>	0	1	1	0	0	0
Gyrinidae		<i>Dineutus</i>	4	0	0	0	0	0
Haliplidae		Haliplidae	0	0	0	0	0	1
Hydroscaphidae		* <i>Hydroscapha</i>	0	11	5	5	3	2
Psephenidae		* <i>Psephenus</i>	1	45	21	4	4	1
Ptilodactylidae	* <i>Anchytarsus</i>	38	0	0	0	0	0	
Scirtidae	<i>Scirtes</i>	0	0	0	0	0	1	
Staphylinidae	Staphylinidae	3	0	0	0	1	0	
Hemiptera	Belostomatidae	<i>Abedus</i>	1	0	0	1	2	0
	Gelastocoridae	<i>Gelastocoris</i>	0	0	0	0	1	0
	Gerridae	<i>Gerridae</i>	3	3	2	4	1	0
	Naucoridae	<i>Cryphocricus</i>	0	0	0	0	2	0
	Nepidae	<i>Curcita</i>	0	2	1	0	0	0
	Notonectidae	<i>Notonecta</i>	3	0	0	1	0	0
	Veliidae	* <i>Rhagovelia</i>	26	33	2	1	0	3
Lepidoptera	Pyralidae	<i>Parapoynx</i>	0	0	0	0	1	0
		<i>Petrophila</i>	0	14	1	0	0	3
Neuroptera	Sisyridae	<i>Sisyra</i>	0	0	0	1	4	0
Megaloptera	Corydalidae	<i>Chloronia</i>	0	2	0	0	0	1
		<i>Corydalus</i>	0	0	0	0	1	0
Blattodea	Blatellidae	Blatellidae	3	0	0	0	0	0
Collembola	Entomobryidae	*Entomobryidae	9	0	0	0	0	16
	Isotomidae	Isotomidae	2	0	1	0	0	0
Crustacea	Atyidae	<i>Atyida</i>	2	0	0	1	0	0
	Palaemonidae	<i>Macrobrachium</i>	1	0	0	0	0	3
	Pseudothelphusidae	Pseudothelphusidae	7	1	0	0	0	0
Mollusca	Bivalvia	*Bivalvia	0	0	50	279	601	1
	Gastropoda	*Gastropoda	0	49	231	181	360	28
Nematomorpha	Chordodidae	Chordodidae	1	11	8	1	1	0
Oligochaeta	Oligochaeta	*Oligochaeta	3	18	21	8	7	0
Tricladida	Planariidae	*Planariidae	36	36	87	40	73	9
Total abundance			1593	5260	4115	5624	6024	3263
Total richness			70	69	65	64	71	62