

June 4 th	Ancylidae	Anthomyidae	Chironomidae	Dugesidae	Elmidae larvae	Ephemerellidae	Glossiphonidae	Hydraenidae	Hydropsychidae	Lumbriculidae	Perlodidae
Ancylidae											
Anthomyidae	0.809										
Chironomidae	0.713	0.590									
Dugesidae	0.776	0.724	0.815								
Elmidae larvae	0.807	0.570	0.850	0.860							
Ephemerellidae	0.623	0.487	0.838	0.855	0.826						
Glossiphonidae	0.777	0.689	0.776	0.946	0.917	0.746					
Hydraenidae	0.809	1.000	0.590	0.724	0.570	0.487	0.689				
Hydropsychidae	0.647	0.390	0.924	0.636	0.810	0.676		0.390			
Lumbriculidae	0.792	0.451	0.800	0.781	0.973	0.779	0.844	0.451	0.820		
Perlodidae	0.459	0.541	0.872	0.662	0.674	0.620	0.692	0.541	0.825	0.575	
Simuliidae	0.771	0.471	0.912	0.840	0.939	0.855	0.834	0.471	0.881	0.949	0.676
June 18 th	Chironomidae	Dugesidae	Elmidae larvae	Glossiphonidae	Psychomyiidae	Tabanidae					
Chironomidae											
Dugesidae	0.713										
Elmidae larvae	0.751	0.405									
Glossiphonidae	0.928	0.748	0.874								
Psychomyiidae	0.865	0.405	0.667	0.764							
Tabanidae	0.865	0.405	0.667	0.764	1.000						
Tipulidae	0.888	0.775	0.641	0.848	0.707	0.707					

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Supplementary Tab. 2. Gut content composition of taxa collected in Despeñaperros stream.

Taxa	Detritus (%)		Diatoms (%)		CPOM (%)		Pollen (%)		Fungi (%)		Prey (%)		Cianoprocariota (%)		Prey (n)		Chironomidae (n)		Simuliidae (n)		Ephemeroptera (n)		Plecoptera (n)		Ancyliidae (n)		Lumbriculidae (n)		Hydracarina (n)		Ostracoda (n)		Copepoda (n)		Unidentified animal matter (n)			
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD		
Ancyliidae	3.38	14.29	91.23	23.38	0.00	0.00	1.30	11.32	4.09	16.05	0.00	0.00	0.00	0.00																								
Anthomyidae larvae	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																								
Athericiidae	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																								
Capniidae	28.87	32.14	66.30	34.29	0.48	2.15	0.00	0.00	1.83	4.89	0.00	0.00	2.52	7.74																								
Ceratopogonidae																																						
Chironomidae	13.49	23.35	82.65	25.63	0.02	0.14	0.90	7.89	2.63	8.54	0.40	3.95	0.00	0.00	1.38	0.70	0.57	0.49	0.14	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.38	0.63	0.74			
Dolichopodidae	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																								
Dugesidae	9.56	27.70	87.01	31.70	0.01	0.11	0.18	1.65	3.23	15.30	0.00	0.00	0.00	0.00																								
Dytiscidae larvae	5.00	5.00	94.50	5.50	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.00	0.00																								
Elmidae adult	62.00	38.16	37.80	37.83	0.00	0.00	0.00	0.00	0.20	0.40	0.00	0.00	0.00	0.00																								
Elmidae larvae	26.27	30.39	66.83	35.60	0.00	0.00	0.20	0.75	6.70	15.38	0.00	0.00	0.00	0.00																								
Ephemerellidae	60.57	31.52	30.04	30.58	7.78	16.98	0.66	2.22	0.43	0.84	0.00	0.00	0.45	2.81																								
Gammaridae	95.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																								
Gerridae																																						
Glossiphoniidae	37.25	39.56	56.50	43.30	0.00	0.00	0.08	0.28	6.17	13.70	0.00	0.00	0.00	0.00																								
Glossosomatidae	0.00	0.00	75.00	25.00	0.00	0.00	0.00	0.00	25.00	25.00	0.00	0.00	0.00	0.00																								
Halipilidae larvae	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																								
Hydraenidae	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																								
Hydrobiidae																																						
Hydropsychidae	8.71	16.45	69.43	39.26	0.00	0.00	0.36	0.61	2.21	5.12	19.29	37.32	0.00	0.00	2.00	0.71	0.75	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.50			
Leuctridae	52.96	31.71	38.12	32.50	2.96	6.23	0.00	0.00	1.96	8.25	0.00	0.00	4.25	13.41																								
Libellulidae	0.00	0.00	99.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	-	0.00	-	0.00	-	0.00	-	0.00	-	0.00	-	0.00	-	1.00	-	-			
Limnephilidae	50.00	37.42	49.00	36.36	0.00	0.00	0.00	0.00	1.00	1.41	0.00	0.00	0.00	0.00																								
Limoniidae	63.42	26.99	34.19	26.77	0.03	0.22	0.08	0.30	2.07	3.89	0.00	0.00	0.00	0.00																								
Lumbriculidae	30.63	23.65	64.63	25.61	0.47	1.90	0.20	0.61	4.20	7.64	0.00	0.00	0.00	0.00																								
Nematomorpha	85.00	0.00	10.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																								
Notonectidae																																						
Ostracoda	26.69	40.73	73.31	40.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																								
Perlotidae	21.42	24.28	76.42	25.29	0.67	2.38	0.06	0.41	0.23	0.87	-	-	0.54	4.78	1.70	5.26	0.81	3.32	0.71	3.46	0.04	0.22	0.04	0.22	0.04	0.46	0.00	0.06	0.00	0.06	0.00	0.06	0.00	0.00	0.04	0.21		
Planorbidae																																						
Psychomyiidae	45.00	45.00	52.50	47.50	0.00	0.00	0.50	0.50	2.00	2.00	0.00	0.00	0.00	0.00																								
Rhyacophilidae																																						
Scirtidae larvae	87.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00																								
Simuliidae	13.33	22.88	82.21	23.47	0.11	0.57	0.58	1.22	3.64	4.44	0.08	0.36	0.02	0.14	1.00	0.00	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.58			
Tabanidae	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																								
Taeniopterygidae	25.91	33.80	65.48	37.80	0.99	3.89	0.00	0.00	0.36	1.44	0.00	0.00	7.12	18.99																								
Tipulidae	26.33	30.76	67.78	30.61	0.00	0.00	0.00	0.00	5.89	4.04	0.00	0.00	0.00	0.00																								

CPOM, coarse particulate organic matter; SD, standard deviation.