

Supplementary Tab. 1. Horn index among taxa present on each sampling date in Despeñaperros stream.

November	Ancylidae	Capniidae	Chironomidae	Dugesiidae	Elmidae larvae	Glossiphoniidae	Leuctridae	Limoniidae	Lumbriculidae	Ostracoda	Perlodidae	Scirtidae larvae	Simuliidae	Tabanidae			
Ancylidae																	
Capniidae	0.644																
Chironomidae	0.586	0.758															
Dugesiidae	0.114	0.699	0.247														
Elmidae larvae	0.597	0.945	0.894	0.573													
Glossiphoniidae	0.103	0.679	0.339	0.951	0.625												
Leuctridae	0.713	0.881	0.625	0.633	0.804	0.638											
Limoniidae	0.422	0.723	0.553	0.518	0.683	0.486	0.736										
Lumbriculidae	0.449	0.874	0.734	0.701	0.876	0.737	0.868	0.817									
Ostracoda	0.593	0.901	0.599	0.607	0.809	0.500	0.719	0.689	0.737								
Perlodidae	0.653	0.817	0.696	0.446	0.799	0.463	0.826	0.887	0.761	0.684							
Scirtidae larvae	0.489	0.952	0.760	0.770	0.955	0.809	0.834	0.699	0.918	0.809	0.760						
Simuliidae	0.542	0.875	0.807	0.608	0.893	0.681	0.831	0.786	0.938	0.681	0.827	0.901					
Tabanidae	0.122	0.570	0.000	0.862	0.352	0.689	0.474	0.451	0.487	0.689	0.302	0.541	0.354				
Taeniopterygidae	0.773	0.976	0.768	0.568	0.916	0.538	0.884	0.695	0.807	0.892	0.833	0.878	0.833	0.483			
December	Athericidae	Capniidae	Chironomidae	Dugesiidae	Elmidae larvae	Glossiphoniidae	Hydropsychidae	Leuctridae	Lumbriculidae	Perlodidae	Psychomyiidae	Simuliidae	Tabanidae	Taeniopterygidae			
Athericidae																	
Capniidae	0.503																
Chironomidae	0.604	0.870															
Dugesiidae	0.953	0.612	0.745														
Elmidae larvae	0.541	0.875	0.975	0.673													
Glossiphoniidae	1.000	0.503	0.604	0.953	0.541												
Hydropsychidae	0.541	0.736	0.869	0.680	0.890	0.541											
Leuctridae	0.507	0.913	0.786	0.584	0.799	0.507	0.658										
Lumbriculidae	0.490	0.848	0.915	0.622	0.949	0.490	0.893	0.867									
Perlodidae	0.559	0.929	0.821	0.630	0.836	0.559	0.684	0.929	0.842								
Psychomyiidae	0.451	0.766	0.855	0.579	0.914	0.451	0.971	0.698	0.913	0.726							
Simuliidae	0.541	0.883	0.992	0.680	0.986	0.541	0.847	0.801	0.922	0.837	0.862						
Tabanidae	0.689	0.670	0.868	0.844	0.782	0.689	0.809	0.577	0.741	0.602	0.689	0.809					
Taeniopterygidae	0.534	0.930	0.833	0.599	0.865	0.534	0.676	0.961	0.877	0.950	0.746	0.863	0.564				
Tipulidae	0.604	0.889	0.969	0.712	0.977	0.604	0.812	0.827	0.907	0.871	0.848	0.983	0.748	0.908			
January	Ancylidae	Capniidae	Chironomidae	Dolichoponidae	Dugesiidae	Elmidae adults	Elmidae larvae	Glossomatidae	Haliplidae larvae	Hydropsychidae	Leuctridae	Limoniidae	Lumbriculidae	Ostracoda	Perlodidae	Simuliidae	Tabanidae
Ancylidae																	
Capniidae	0.670																
Chironomidae	0.697	0.813															
Dolichoponidae	0.000	0.000	0.062														
Dugesiidae	0.917	0.610	0.800	0.200													
Elmidae adults	0.822	0.543	0.827	0.000	0.914												
Elmidae larvae	0.927	0.763	0.894	0.000	0.925	0.908											
Glossomatidae	0.918	0.606	0.817	0.000	0.955	0.979	0.954										
Haliplidae larvae	0.963	0.653	0.579	0.000	0.826	0.689	0.840	0.809									
Hydropsychidae	0.955	0.632	0.798	0.000	0.960	0.951	0.963	0.994	0.862								
Leuctridae	0.585	0.934	0.755	0.000	0.550	0.504	0.692	0.551	0.552	0.568							
Limonidae	0.662	0.817	0.989	0.000	0.742	0.809	0.873	0.792	0.541	0.770	0.761						
Lumbriculidae	0.641	0.801	0.964	0.075	0.744	0.756	0.838	0.749	0.530	0.732	0.825	0.954					
Ostracoda	0.963	0.653	0.579	0.000	0.826	0.689	0.840	0.809	1.000	0.862	0.552	0.541	0.530				
Perlodidae	0.639	0.899	0.766	0.000	0.574	0.504	0.723	0.568	0.635	0.594	0.880	0.770	0.808	0.635			
Simuliidae	0.758	0.798	0.972	0.212	0.878	0.823	0.912	0.836	0.655	0.829	0.736	0.936	0.936	0.655	0.755		
Tabanidae	0.963	0.653	0.579	0.000	0.826	0.689	0.840	0.809	1.000	0.862	0.552	0.541	0.530	1.000	0.635	0.655	
Taeniopterygidae	0.653	0.925	0.685	0.000	0.573	0.491	0.703	0.563	0.674	0.594	0.965	0.679	0.737	0.674	0.864	0.693	0.674
February	Ancylidae	Capniidae	Chironomidae	Dugesiidae	Dytiscidae larvae	Ephemerellidae	Gammaridae	Hydropsychidae	Leuctridae	Libellulidae	Limnephilidae	Limoniidae	Lumbriculidae	Ostracoda	Perlodidae	Simuliidae	Tabanidae
Ancylidae																	
Capniidae	0.583																
Chironomidae	0.662	0.835															
Dugesiidae	0.899	0.760	0.863														
Dytiscidae larvae	0.799	0.824	0.976	0.935													
Ephemerellidae	0.471	0.904	0.923	0.696	0.861												
Gammaeridae	0.663	0.743	0.848	0.897	0.844	0.720											
Hydropsychidae	0.638	0.771	0.906	0.825	0.894	0.820	0.809										
Leuctridae	0.601	0.988	0.879	0.789	0.863	0.914	0.778	0.808									

June 4^b	Ancylidae	Anthomyidae	Chironomidae	Dugesiidae	Elmidae larvae	Ephemerellidae	Glossiphonidae	Hydraenidae	Hydropsychidae	Lumbriculidae	Perlodidae
Ancylidae											
Anthomyidae	0.809										
Chironomidae	0.713	0.590									
Dugesiidae	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	0.676	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	
Simulidae	0.771	0.471	0.912	0.840	0.939	0.855	0.834	0.471	0.881	0.949	0.676
June 18^b	Chironomidae	Dugesiidae	Elmidae larvae	Glossiphonidae	Psychomyiidae	Tabanidae					
Chironomidae											
Dugesiidae	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.

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