

Supplementary Materials

**Table S1.** Description of the sets of variables used in data analysis.

Variables	Mean	Standard Deviation (SD)
<b>Physiochemical</b>		
Dissolved Oxygen mg/l	4.51	1.16
Electrical Conductivity $\mu$ S	31.94	13.54
Temperature $^{\circ}$ C	25.38	1.32
pH	5.39	1.03
<b>Local Habitat</b>		
Habitat integrity index	0.64	0.16
Great shelter	7.81	7.37
Natural shelter	37.31	26.42
Full shelter	37.57	26.42
Aquatic Plant	10.11	17.40
Wood Big	3.99	5.64
Wood Small	16.87	14.15
Live tree	22.17	16.97
Overhanging Vegetation	12.89	10.05
Substrate SD	326.35	704.81
Substrate mean	143.21	436.72
Mean of Woody Cover	71.77	29.35
Mean of Total Cover	15.56	11.26
Canopy Average + Intermed. Woody	80.52	26.53
Canopy Average + Intermed.	16.04	21.80
Land Cover Average	7.08	10.26
Intermed Coverage Average	20.11	21.30
Canopy Coverage Average	28.56	18.51
Average Exposed Soil	18.47	14.75
Average Herbs	22.10	13.14
Woody Crawling Average	34.23	25.20
Herbs Subbow Average	11.76	14.57
Woody Understory Average	27.18	30.90
Average Canopy Small Trees	47.02	20.97
Average Canopy Big Trees	56.33	18.76
Canopy SD % Margin	74.21	44.77
Canopy mean % Margin	55.74	45.99
Canopy SD % Channel	130.54	41.49
Canopy mean % Channel	77.84	56.44
<b>Landscape</b>		
% Primary Forest	69.63	27.30
% Mature Forest	71.31	27.21
% Secondary forest	12.12	10.71
% Young Secondary Forest	10.44	10.34
% Exposed Soil	18.24	20.06
% Primary forest and Riparian	62.50	30.29
% Mature Forest and Riparian	64.66	29.43
% Secondary Forest and Riparian	16.34	16.13
% Secondary Young Forest and Riparian	14.17	14.80
% Exposed Soil and Riparian	21.15	20.71
% Primary Local Forest	38.20	43.29
% Matura Local Forest	40.55	43.00
% Secondary Local Forest	24.51	28.17
% Secondary Young Local Forest	22.17	26.14
% Expose Local Soil	37.28	34.70