

Challenges using extrapolated family-level macroinvertebrate metrics in moderately disturbed tropical streams: a case-study from Belize

Hydrobiologia

Rachael Carrie, Michael Dobson & Jos Barlow

Institute of Science and the Environment, University of Worcester, Worcestershire, WR2 6AJ, UK.

r.carrie@worc.ac.uk

Online Resources 4 Mean (SE) values of environmental characteristics for treatment groups in calcareous streams

Parameter	Forest	Milpa	Residential	Agriculture
Dissolved Oxygen	7.68 (0.46)	8.01 (0.55)	7.84 (0.78)	6.75 (0.50)
Conductivity	372.50 (13.32)	358.87 (17.67)	352.67 (15.03)	444.27 (38.38)
pH	7.79 (0.06)	7.81 (0.12)	7.80 (0.06)	7.75 (0.03)
Turbidity	1.73 (0.34)	3.41 (0.64)	2.95 (0.80)	3.06 (0.80)
NO ₃ -N	0.41 (0.03)	0.35 (0.02)	0.41 (0.03)	0.28 (0.03)
PO ₄ ³⁻	0.07 (0.01)	0.09 (0.01)	0.09 (0.01)	0.11 (0.01)
SVAP ^a	9.23 (0.20)	8.07 (0.22)	7.22 (0.18)	7.04 (0.39)
Riparian Width	30.00 (0.00)	4.01 (1.03)	5.38 (2.03)	8.20 (3.46)
%Gravel	36.82 (7.67)	38.54 (3.44)	30.89 (4.46)	23.35 (6.28)
%Sand	6.74 (3.89)	7.67 (3.11)	16.80 (3.46)	9.81 (3.10)
%Fines	24.47 (6.14)	33.70 (2.48)	30.78 (3.45)	42.49 (6.23)
%Embeddedness	38.18 (5.37)	47.21 (4.78)	47.28 (4.85)	52.44 (5.32)
Riparian Canopy	82.69 (2.54)	70.30 (4.90)	79.60 (2.69)	80.09 (3.98)
Stream Size	329.36 (104.22)	802.93 (234.69)	897.75 (159.09)	741.30 (167.37)
Distance Sea	39.62 (8.76)	46.00 (10.00)	46.73 (8.00)	34.65 (8.62)

^aStream Visual Assessment Protocol Score