

Supplementary material

How sensitive are invertebrates to riparian-zone replanting in stream ecosystems?

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Table S1. Summary statistics of reach and catchment characteristics at each site (mean ± s.d.)

Abbreviations are defined in Table 2

Variable (<i>n</i> of samples)	Units	Camerons Well	Castle (lower)	Castle (upper)	Creightons	Faithful (lower)	Faithful (upper)	Harrys
Lat.	°S	36.86	36.86	36.90	36.88	36.74	36.75	36.70
Long.	°E	145.42	145.58	145.59	145.53	145.66	145.75	145.74
pH (3–4)		6.4 (0.2)	7.2 (0.1)	7.4 (0.2)	7.3 (0.2)	7.0 (0.1)	6.8 (0.3)	7.5 (0.1)
Cond (3–4)	mS cm ⁻¹	0.38 (0.11)	0.27 (0.02)	0.19 (0)	0.14 (0.01)	0.19 (0.02)	0.06 (0)	0.26 (0.04)
Turb (3–4)	NTU	14 (6)	13 (3)	34 (30)	22 (5)	27 (9)	43 (19)	11 (5)
DO (3–4)	mg L ⁻¹	6.7 (5.4)	8.1 (1.2)	9 (1)	10.1 (2.2)	9.6 (5.1)	9.1 (0.6)	9.5 (1.1)
Temp (529–808)	°C	13.8 (4.2)	13.9 (5.3)	12.7 (4.1)	14.6 (4.6)	14.1 (4.9)	12.1 (3.9)	13.2 (4.8)
FRP (6–22)	mg L ⁻¹	0.010 (0.006)	0.009 (0.007)	0.019 (0.006)	0.021 (0.009)	0.032 (0.056)	0.011 (0.001)	0.043 (0.017)
NO _x (6–22)	mg L ⁻¹	0.284 (0.284)	0.041 (0.057)	0.138 (0.124)	0.387 (0.217)	0.112 (0.119)	0.316 (0.087)	0.053 (0.076)
NH ₃ (6–22)	mg L ⁻¹	0.09 (0.074)	0.024 (0.028)	0.031 (0.008)	0.036 (0.022)	0.026 (0.011)	0.029 (0.009)	0.023 (0.015)
Days.spate (3–4)	days	72 (41)	41 (11)	36 (4)	42 (12)	48 (23)	37 (3)	27 (15)
MDF (529–808)	ML day ⁻¹	0 (0)	12 (46)	7 (11)	26 (44)	27 (20)	4 (4)	8 (40)
RiffRun%	%	10	5	80	80	5	90	30
Pool%	%	90	95	20	20	95	10	70
SubSmall%	%	80	98	95	100	100	100	100
SubLarge	%	20	2	5	0	0	0	0
Algae	ordinal	5	1	1	1	0	0	0
Silt	ordinal	0	2	3	1	2	1	1
Macro	ordinal	2	2	1	2	0	1	2
CPOM	ordinal	1	2	1	1	1	1	2
LW	ordinal	1	1	1	1	1	2	1
Shading	ordinal	3	2	2	1	2	4	3
RipWidth	m	7	12	15	0	6.5	30	30
RipLongExt	m	5	4	4	0	2.5	1	5
Elevation	m	383	245	305	250	214	450	303
WSTrees	%	20	10	15	15	22	32	36
WSSlope	%	–	4	5	4	5	3	8
USRipCont	%	66	34	65	18	78	89	29
DistContFor	km	1	10	5	5	3	0	4

Variable (<i>n</i> of samples)	Units	Hollands	Honeysuckle	Moonee (lower)	Moonee (upper)	Ryans	Seven (lower)	Seven (upper)
Lat.	°S	36.71	36.65	36.74	36.84	36.64	36.71	36.81
Long.	°E	146.09	145.74	145.99	145.94	146.19	145.54	145.82
pH (3–4)		7.7 (1.1)	7.6 (0.2)	6.6 (0.2)	6.5 (0.2)	6.9 (0.2)	7.1 (0.2)	6.3 (0.3)
Cond (3–4)	mS cm ⁻¹	0.09 (0.01)	0.2 (0.02)	0.07 (0.01)	0.05 (0)	0.05 (0.01)	0.12 (0.01)	0.05 (0)
Turb (3–4)	NTU	7 (2)	17 (8)	24 (16)	11 (5)	6 (2)	31 (12)	26 (3)
DO (3–4)	mg L ⁻¹	9.8 (1.1)	9.2 (1.6)	8.5 (1.8)	9.8 (0.4)	8.9 (0.3)	8.3 (1)	8.8 (0.8)
Temp (529–808)	°C	14.6 (5.6)	14.5 (5.3)	13.7 (4.6)	11.7 (3.2)	17 (5.4)	14.4 (5.6)	10.8 (4.3)
FRP (6–22)	mg L ⁻¹	0.008 (0.003)	0.025 (0.008)	0.0210 (0.006)	0.027 (0.018)	0.007 (0.003)	0.011 (0.004)	0.012 (0.002)
NO _x (6–22)	mg L ⁻¹	0.089 (0.105)	0.091 (0.055)	0.203 (0.020)	0.037 (0.015)	0.057 (0.049)	0.297 (0.196)	0.151 (0.049)
NH ₃ (6–22)	mg L ⁻¹	0.013 (0.006)	0.016 (0.005)	0.022 (0.007)	0.013 (0.007)	0.015 (0.009)	0.025 (0.006)	0.017 (0.004)
Days.spate (3–4)	days	36 (6)	36 (6)	49 (23)	69 (17)	68 (12)	38 (10)	37 (3)
MDF (529–808)	ML day ⁻¹	157 (179)	22 (53)	50 (48)	8 (4)	99 (63)	241 (280)	18 (29)
RiffRun%	%	20	10	0	90	80	30	50
Pool%	%	80	90	100	10	20	70	50
SubSmall%	%	70	95	100	60	29	70	55
SubLarge	%	30	5	0	40	71	30	45
Algae	ordinal	1	0	0	0	1	0	3
Silt	ordinal	1	1	3	1	0	1	2
Macro	ordinal	0	2	0	1	1	1	1
CPOM	ordinal	1	2	1	2	1	1	2
LW	ordinal	2	2	1	2	1	1	2
Shading	ordinal	2	2	2	5	1	1	4
RipWidth	m	3	8.5	9	30	6.5	25	25
RipLongExt	m	1	5	5	5	5	4.5	4
Elevation	m	222	193	205	925	229	166	532
WSTrees	%	73	30	70	97	86	15	48
WSSlope	%	8	6	7	10	7	4	4
USRipCont	%	87	45	49	100	80	64	78
DistContFor	km	6	10	4	0	10	24	6

Variable (<i>n</i> of samples)	Units	Trib. of Broken	Two Mile	Warrenbayne (lower)	Warrenbayne (upper)	White Gum Gully	Wombat
Lat.	°S	36.92	36.65	36.70	36.72	36.80	36.87
Long.	°E	145.98	145.78	145.88	145.85	145.89	145.63
pH (3–4)		7.0 (0.2)	7.6 (0.1)	7.2 (0.3)	7.0 (0.3)	6.7 (0.5)	6.9 (0.3)
Cond (3–4)	mS cm ⁻¹	0.19 (0.04)	1.15 (0.27)	0.26 (0.32)	0.09 (0)	0.05 (0)	0.13 (0.02)
Turb (3–4)	NTU	22 (20)	24 (23)	17 (4)	14 (1)	16 (3)	10 (2)
DO (3–4)	mg L ⁻¹	7.2 (2.5)	5.9 (1.4)	9.9 (1.3)	11.2 (2.2)	10.3 (0.7)	9.4 (1.5)
Temp (529–808)	°C	13.6 (4.9)	13.7 (4.2)	13.2 (4.9)	12.2 (4.5)	11.6 (3.2)	13.7 (4.8)
FRP (6–22)	mg L ⁻¹	0.013 (0.006)	0.016 (0.007)	0.022 (0.014)	0.014 (0.003)	0.018 (0.003)	0.017 (0.005)
NO _x (6–22)	mg L ⁻¹	0.017 (0.019)	0.064 (0.113)	0.087 (0.050)	0.096 (0.071)	0.037 (0.020)	0.118 (0.099)
NH ₃ (6–22)	mg L ⁻¹	0.024 (0.016)	0.028 (0.033)	0.022 (0.018)	0.015 (0.005)	0.009 (0.004)	0.02 (0.011)
Days.spate (3–4)	days	32 (9)	37 (3)	28 (15)	37 (3)	69 (16)	52 (32)
MDF (529–808)	ML day ⁻¹	2 (6)	3 (7)	30 (35)	18 (17)	8 (5)	22 (45)
RiffRun%	%	25	20	5	40	80	40
Pool%	%	75	80	95	60	20	60
SubSmall%	%	100	90	98	85	60	87
SubLarge	%	0	15	2	15	40	13
Algae	ordinal	2	2	0	3	0	0
Silt	ordinal	1	3	2	1	2	1
Macro	ordinal	3	1	1	1	0	2
CPOM	ordinal	1	2	1	2	2	1
LW	ordinal	1	1	1	1	2	1
Shading	ordinal	2	2	2	2	4	2
RipWidth	m	7	3	12	15	22.5	7.5
RipLongExt	m	4	1	4.5	2	5	2.5
Elevation	m	315	197	230	270	359	570
WSTrees	%	72	26	67	70	85	58
WSSlope	%	8	5	7	6	7	6
USRipCont	%	55	36	72	88	100	74
DistContFor	km	1	7	4	1	0	1