**Supplementary Materials**

**Environmental factors affecting the invasion success and morphological responses of a globally introduced crayfish in floodplain waterbodies**

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**Supplementary S1** Data on crayfish collected by electrofishing in floodplain tributaries.

|  |  |  |  |
| --- | --- | --- | --- |
| Tributary ID | Reach  ID | Area  (m2) | Crayfish (inds) |
| T1 | R1 | 24.56 | 0 |
| T1 | R2 | 21.38 | 0 |
| T1 | R3 | 28.62 | 0 |
| T2 | R1 | 51.89 | 0 |
| T2 | R2 | 52.11 | 0 |
| T2 | R3 | 50.89 | 1 |
| T3 | R1 | 89.24 | 1 |
| T3 | R2 | 100.98 | 1 |
| T3 | R3 | 107.38 | 0 |
| T4 | R1 | 50.89 | 1 |
| T4 | R2 | 65.00 | 0 |
| T4 | R3 | 73.72 | 0 |
| T5 | R1 | 73.66 | 30 |
| T5 | R2 | 63.47 | 16 |
| T5 | R3 | 63.28 | 11 |
| T6 | R1 | 58.77 | 2 |
| T6 | R2 | 69.99 | 5 |
| T6 | R3 | 56.50 | 10 |
| T7 | R1 | 143.32 | 13 |
| T7 | R2 | 127.51 | 29 |
| T7 | R3 | 128.97 | 27 |
| T8 | R1 | 86.80 | 0 |
| T8 | R2 | 91.88 | 0 |
| T8 | R3 | 76.16 | 0 |
| T9 | R1 | 61.70 | 14 |
| T9 | R2 | 56.37 | 25 |
| T9 | R3 | 58.50 | 32 |
| T10 | R1 | 85.22 | 0 |
| T10 | R2 | 72.56 | 0 |
| T10 | R3 | 63.00 | 0 |
| T11 | R1 | 26.68 | 0 |
| T11 | R2 | 22.57 | 0 |
| T11 | R3 | 30.70 | 0 |

**Supplementary S2** Data on crayfish collected using minnow traps in floodplain lakes.

|  |  |  |  |
| --- | --- | --- | --- |
| Lake  ID | Net  ID | Area  (ha) | Crayfish (inds) |
| L1 | K1 | 0.37 | 0 |
| L1 | K2 | 0.37 | 0 |
| L1 | K3 | 0.37 | 0 |
| L1 | K4 | 0.37 | 0 |
| L2 | K1 | 0.41 | 0 |
| L2 | K2 | 0.41 | 0 |
| L2 | K3 | 0.41 | 0 |
| L2 | K4 | 0.41 | 0 |
| L3 | K1 | 0.15 | 0 |
| L3 | K2 | 0.15 | 0 |
| L3 | K3 | 0.15 | 0 |
| L3 | K4 | 0.15 | 0 |
| L4 | K1 | 2.58 | 0 |
| L4 | K2 | 2.58 | 5 |
| L4 | K3 | 2.58 | 3 |
| L4 | K4 | 2.58 | 0 |
| L5 | K1 | 4.48 | 0 |
| L5 | K2 | 4.48 | 0 |
| L5 | K3 | 4.48 | 0 |
| L5 | K4 | 4.48 | 0 |
| L6 | K1 | 1.46 | 0 |
| L6 | K2 | 1.46 | 0 |
| L6 | K3 | 1.46 | 0 |
| L6 | K4 | 1.46 | 0 |
| L7 | K1 | 1.43 | 0 |
| L7 | K2 | 1.43 | 0 |
| L7 | K3 | 1.43 | 1 |
| L7 | K4 | 1.43 | 0 |
| L8 | K1 | 6.10 | 6 |
| L8 | K2 | 6.10 | 18 |
| L8 | K3 | 6.10 | 18 |
| L8 | K4 | 6.10 | 4 |
| L9 | K1 | 0.69 | 0 |
| L9 | K2 | 0.69 | 0 |
| L9 | K3 | 0.69 | 0 |
| L9 | K4 | 0.69 | 0 |
| L10 | K1 | 0.17 | 10 |
| L10 | K2 | 0.17 | 35 |
| L10 | K3 | 0.17 | 25 |
| L10 | K4 | 0.17 | 45 |
| L11 | K1 | 0.04 | 0 |
| L11 | K2 | 0.04 | 0 |
| L11 | K3 | 0.04 | 0 |
| L11 | K4 | 0.04 | 0 |
| L12 | K1 | 1.94 | 24 |
| L12 | K2 | 1.94 | 7 |
| L12 | K3 | 1.94 | 9 |
| L12 | K4 | 1.94 | 13 |
| L13 | K1 | 0.68 | 7 |
| L13 | K2 | 0.68 | 13 |
| L13 | K3 | 0.68 | 25 |
| L13 | K4 | 0.68 | 10 |
| L14 | K1 | 0.29 | 0 |
| L14 | K2 | 0.29 | 0 |
| L14 | K3 | 0.29 | 0 |
| L14 | K4 | 0.29 | 0 |
| L15 | K1 | 0.96 | 19 |
| L15 | K2 | 0.96 | 8 |
| L15 | K3 | 0.96 | 0 |
| L15 | K4 | 0.96 | 6 |
| L16 | K1 | 0.50 | 1 |
| L16 | K2 | 0.50 | 2 |
| L16 | K3 | 0.50 | 1 |
| L16 | K4 | 0.50 | 0 |
| L17 | K1 | 0.16 | 0 |
| L17 | K2 | 0.16 | 0 |
| L17 | K3 | 0.16 | 0 |
| L17 | K4 | 0.16 | 0 |
| L18 | K1 | 0.33 | 0 |
| L18 | K2 | 0.33 | 0 |
| L18 | K3 | 0.33 | 0 |
| L18 | K4 | 0.33 | 0 |