

Table S1. Studies of heavy metals uptake by duckweeds

| Duckweed species | Metal(s) | Initial concentration (mg/L) | Removal rate | Reference |
|-----------------------|----------|------------------------------|--------------|-----------|
| <i>Lemna gibba</i> | Cu, Zn | 0.001, 0.1 | 70-80% | [169] |
| | Cd | | ~90% | |
| | Pb | 2, 4, 10, 15 | 91.0-96.4% | [118] |
| | Cr | | 86.2-94.8% | |
| | Pb | --- ^a | 60% | [170] |
| | Ni | | 60% | |
| | Mn | | 62% | |
| | Cu | | 57% | |
| | Cr | 1-9 | up to 98.6% | [171] |
| | Cd | | up to 94.6% | |
| | Cu | 0.1 | 80% | [172] |
| | | 0.5 | 60% | |
| | Ni | 0.1 | 15% | |
| | | 0.3 | 10% | |
| | | 0.5 | 10% | |
| | Pb | 10 | 98.1 | [122] |
| | | 2 | 60.1 | |
| | Cd | 10 | 41.6 | |
| | | 2 | 84.8 | |
| <i>Lemna minor</i> | Cu | 0.5 | 99.8% | [173] |
| | Hg | 0.25 | 99.53% | |
| | Pb | | 97.88% | |
| | Zn | | 94.37% | |
| | Pb | --- ^b | 62% | [170] |
| | Ni | | 68% | |
| | Mn | | 77% | |
| | Cu | | 58% | |
| | As | 0.5 | 70% | [154] |
| | Cd | 0.5-3 | 42-78% | [119] |
| | Cd | 0.038 | 95 | [123] |
| | | 0.054 | 94.5 | |
| | Cu | 0.062 | 94.7 | |
| | | 0.032 | 92.5 | |
| | Pb | 0.608 | 97.6 | |
| | Ni | 0.059 | 99.9 | |
| | | 0.419 | 90 | |
| | Cr | 0.1 | 94 | [116] |
| | Pb | 0.25 | 36 | |
| | Cd | 1.5 | 33 | |
| | Cu | 0.05 | 29 | |
| | Zn | 1.25 | 51-82 | [174] |
| | Cd | 0.11 | 95 | |
| | Pb | 0.21 | 93 | |
| | Zn | 0.065 | 81.2 | |
| | Cu | 0.064 | 86.5 | [175] |
| | Pb | 10 | 99.99 | |
| | Ni | | 99.3 | |
| | Pb | 16 ^c | 98.7 | [176] |
| | Cu | 12 ^c | 99.8 | |
| | Zn | 43 ^c | 72 | |
| | Cd | 5.1 ^c | 99.6 | |
| | Zn | 1.47 | 83 | [177] |
| | Pb | 0.83 | 78 | |
| | Fe | 1.17 | 77 | |
| | Cu | 0.69 | 91 | |
| | Ni | 1.21 | 76 | [178] |
| | Zn | 1-20 | 40-83 | |
| <i>Lemna minuta</i> | Zn | 1-20 | 35-89 | [178] |
| <i>Lemna trisulca</i> | Zn | 1-20 | 49-97 | |

| | | | | |
|---|----|-------|--------|---|
| Spirodela polyrhiza | Zn | 1-5 | >90% | [179] |
| | Cu | | | |
| | Cr | | | |
| | Fe | | | |
| | Cd | | | |
| | Cd | 0.5-3 | 52-75% | [119] |
| | Pb | 1 | 53 | [180] |
| | Cd | 1 | 53 | |
| | Cu | 65 | 79 | [181] (waste water sample from India) |
| | Pb | 26 | 95 | |
| | Zn | 212 | 66 | |
| | Cr | 118 | 53 | |
| | Co | 7.2 | 28 | |
| | Mn | 8 | 20 | |
| | Hg | 23 | 45 | |
| | Ni | 19.3 | 9 | [181] (waste water sample from Kerala) |
| | Cu | 63 | 74 | |
| | Pb | 34.4 | 91 | |
| | Zn | 301 | 62.4 | |
| | Cr | 121 | 49 | |
| | Co | 8 | 40 | |
| | Mn | 7.3 | 30.1 | |
| | Hg | 3.4 | 53 | |
| | Ni | 22.3 | 22 | |
| | Fe | 5.3 | 98.1 | |
| | Cd | 3 | 100 | |
| a, waste water in circulation; b, waste water in circulation; c, concentration unit is µg/L | | | | |

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