

Table S1. Estimation of potential increases in surface (0–15 cm) soil C, N, P, K, Fe ($\text{g} \cdot \text{kg}^{-1}$ soil), and Cu, Mn, Zn ($\text{mg} \cdot \text{kg}^{-1}$ soil) by continuous application of biochar at 2.4 (B1), 6 (B2) and 12 (B3) $\text{t ha}^{-1} \text{ yr}^{-1}$ for 11 years.

Dose	C	N	P	K	Fe	Mn	Cu	Zn
	$\text{g} \cdot \text{kg}^{-1}$					$\text{mg} \cdot \text{kg}^{-1}$		
B1	6.54	0.28	0.07	0.38	0.08	3.26	0.58	1.23
B2	16.34	0.71	0.18	0.94	0.19	8.14	1.45	3.09
B3	32.68	1.42	0.36	1.88	0.38	16.29	2.89	6.17

Bulk density: 1.2 g cm^{-3} .