

1 **Supplementary Material**

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3 **Table S1** Effects of N addition on physiochemical characteristics of soils.

Treatments	CT	LN	HN	<i>P</i>
pH	4.94±0.04 a	4.58±0.07 b	4.46±0.12 b	< 0.01
SOC (g kg ⁻¹)	51.0±3.1 b	57.5±5.1 a	58.0 ±3.2 a	0.06
TN (g kg ⁻¹)	3.85±0.27 b	4.44±0.18 a	4.65±0.26 a	< 0.01
SOC: TN	13.3±0.8 a	13.0±1.3 a	12.5±0.5 a	0.58
Mineral N (mg kg ⁻¹)	56.2±5.6 b	70.8±8.4 a	76.8±7.2 a	< 0.01
MBC (mg kg ⁻¹)	1790±67 a	1429±146 b	1314±75 b	< 0.01

4 CT: control (+0 kg N ha⁻¹ yr⁻¹); LN: low-nitrogen addition (+40 kg N ha⁻¹ yr⁻¹); HN:

5 high-nitrogen addition (+80 kg N ha⁻¹ yr⁻¹); SOC: soil organic carbon; TN: total

6 nitrogen; SOC: TN: ratio of soil organic carbon to total nitrogen; Mineral N: mineral

7 nitrogen; MBC: microbial biomass carbon. *P* represents the main effect of N addition.

8 One-way analysis of variance was performed to determine the effects of N addition on

9 physiochemical characteristics of soils (*P* < 0.05). Different letters in the same row

10 indicate significant differences among the different N addition treatments, as

11 determined using the least significant difference test (*P* < 0.05). Values are presented

12 as mean ± standard deviation (*n* = 4).

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