

SUPPORTING INFORMATION

Table S1. Pre-planting soil physicochemical characteristics. Methods for the soil chemical characterization are described in the soil characterization section. Particle size distribution was quantified by hydrometer analysis on samples previously dry-sieved at 2 mm as detailed in Amendola et al. [31]. All concentrations are on a dry matter basis and represent the means of three replicates \pm standard deviation.

PARAMETER	VALUE
pH	7.1 \pm 0.20
Alkalinity (% CaCO₃)	7.6 \pm 0.40
EC (dS/m)	0.8 \pm 0.02
Moisture (g/kg)	48.9 \pm 4.07
Ash (%)	93.8 \pm 0.89
N_{tot} (g/kg)	1.3 \pm 0.07
P_{tot} (mg/kg)	286.8 \pm 15.90
P_{av} (mg/kg)	<12.0 \pm 0.00
C_{tot} (g/kg)	18.9 \pm 0.40
CEC (cmol/kg)	33.8 \pm 3.43
Particle size distribution:	
$\phi > 2$ mm (%)	13.2 \pm 0.7
200 μm < ϕ < 2 mm (%)	39.4 \pm 1.6
50 < ϕ < 200 μm (%)	11.4 \pm 1.2
20 < ϕ < 50 μm (%)	5.0 \pm 0.2
2 < ϕ < 20 μm (%)	17.1 \pm 2.4
$\phi < 2$ μm (%)	13.9 \pm 1.9