Table S1. Results from linear mixed-effects models (F values, with *p* values in parentheses) testing the effects of rotation system (R), soil depth (D), and their interaction on soil indices. Values in bold indicate statistical significance at $p < 0.05$.

	R	D	R × D
SOC	**23.62 (<0.001)**	**283.84 (<0.001)**	**13.87 (<0.001)**
TN	**10.42 (<0.001)**	**233.74 (<0.001)**	0.74 (0.49)
DOC	**29.95 (<0.001)**	**240.51 (<0.001)**	**8.92 (0.002)**
NO_3^--N	**119.21 (<0.001)**	**488.58 (<0.001)**	**89.21 (<0.001)**
NH_4^+-N	2.61 (0.10)	1.34 (0.26)	0.03 (0.97)
AP	**22.23 (0.002)**	**312.80 (<0.001)**	3.71 (0.067)
pH	**22.55 (<0.001)**	**66.98 (<0.001)**	**19.26 (<0.001)**
BD	0.04 (0.96)	2.43 (0.14)	0.30 (0.74)
$R_{0.25}$	**19.38 (<0.001)**	**1090.58 (<0.001)**	**19.39 (<0.001)**
MBC	**5.15 (0.04)**	**198.35 (<0.001)**	1.21 (0.34)
MBN	**18.91 (<0.001)**	**523.42 (<0.001)**	2.10 (0.18)
MBC:N	1.15 (0.38)	**8.84 (0.02)**	0.54 (0.60)
BG	**10.27 (0.001)**	**160.12 (<0.001)**	**4.80 (0.02)**
CBH	**30.73 (<0.001)**	**110.32 (<0.001)**	**4.86 (0.04)**
NAG	**8.28 (0.003)**	**10.84 (0.005)**	0.82 (0.46)
LAP	0.67 (0.52)	**48.64 (<0.001)**	0.72 (0.50)
AKP	**49.96 (<0.001)**	**13.00 (0.003)**	**8.86 (0.003)**
PHO	**5.55 (0.03)**	**221.71 (<0.001)**	0.72 (0.51)
VL	2.39 (0.12)	**109.40 (<0.001)**	0.99 (0.39)
VA	3.52 (0.05)	**49.73 (<0.001)**	1.45 (0.26)
SQI	**78.37 (<0.001)**	0.79 (0.39)	2.84 (0.09)