



Table S1. Correlation coefficients between pH, organic carbon content and the forms and fractions of N in clayey soil (LV).

	N-HA	N-AS	N-AA	N-HT	N-HU	N-AI	Total N	N-DSD	SOC	pH
N-AS ⁽¹⁾	0.19 ^{ns}	1								
N-AA	0.43*	0.00 ^{ns}	1							
N-HT	0.56*	0.71*	0.27 ^{ns}	1						
N-HU	0.32 ^{ns}	0.64*	−0.16 ^{ns}	0.89*	1					
N-AI	−0.04 ^{ns}	−0.06 ^{ns}	0.17 ^{ns}	0.26 ^{ns}	0.27 ^{ns}	1				
Total N	0.58*	0.42*	0.14 ^{ns}	0.66*	0.58*	0.29 ^{ns}	1			
N-DSD	0.21 ^{ns}	0.33 ^{ns}	−0.25 ^{ns}	0.58*	0.73*	0.45*	0.51*	1		
SOC	0.63*	0.59*	0.23 ^{ns}	0.83*	0.71*	0.33 ^{ns}	0.82*	0.57*	1	
pH	0.49*	0.25 ^{ns}	0.10 ^{ns}	0.60*	0.58*	0.35*	0.63*	0.54*	0.74*	1
N-min	0.03 ^{ns}	0.38*	0.22 ^{ns}	0.18 ^{ns}	0.05 ^{ns}	−0.12 ^{ns}	−0.08 ^{ns}	−0.29 ^{ns}	−0.06 ^{ns}	−0.26 ^{ns}

⁽¹⁾ N-AS: amino sugar fraction; N-HA: hydrolysable ammonium; N-AA: N amino acids; N-HT: total hydrolysable; N-HU: unidentified hydrolysable; N-AI: insoluble in acid; Total N: total soil N; N-DSD: N potentially available through the direct steam distillation method; SOC: soil organic carbon; pH: soil pH measured in CaCl₂ solution 0.01 M L^{−1}; N-min: Soil mineral N.

Table S2. Correlation coefficients between pH, organic carbon content and the forms and fractions of N in sandy soil (PVA).

	N-HA	N-AS	N-AA	N-HT	N-HU	N-AI	Total N	N-DSD	SOC	pH
N-AS ⁽¹⁾	−0.81*	1								
N-AA	0.38*	−0.24 ^{ns}	1							
N-HT	0.53*	−0.29 ^{ns}	0.36*	1						
N-HU	0.42*	−0.32 ^{ns}	0.19 ^{ns}	0.96*	1					
N-AI	0.34 ^{ns}	−0.18 ^{ns}	0.32 ^{ns}	−0.15 ^{ns}	−0.30 ^{ns}	1				
Total N	0.42*	−0.33 ^{ns}	0.39*	0.20 ^{ns}	0.12 ^{ns}	0.11 ^{ns}	1			
N-DSD	0.76*	−0.54*	0.34 ^{ns}	0.51*	0.40*	0.43*	0.37*	1		
SOC	0.75*	−0.58*	0.42*	0.61*	0.52*	0.17 ^{ns}	0.41*	0.62*	1	
pH	0.80*	−0.65*	0.32 ^{ns}	0.44*	0.35*	0.49*	0.33 ^{ns}	0.79*	0.60*	1
N-min	0.47*	−0.15 ^{ns}	0.46*	0.41*	0.24 ^{ns}	0.15 ^{ns}	0.28 ^{ns}	0.39*	0.51*	0.17 ^{ns}

⁽¹⁾ N-AS: amino sugar fraction; N-HA: hydrolysable ammonium; N-AA: N amino acids; N-HT: total hydrolysable; N-HU: unidentified hydrolysable; N-AI: insoluble in acid; Total N: total soil N; N-DSD: N potentially available through the direct steam distillation method; SOC: soil organic carbon; pH: soil pH measured in CaCl₂ solution 0.01 M L^{−1}; N-min: Soil mineral N.