

Table 1 Initial soil properties at the three sites 2010, 2011 and 2012

Soil properties	2010	2011	2012
pH (H <sub>2</sub> O)	6.2	6.5	5.8
pH(CaCl <sub>2</sub> )	6	5.9	5
organic matter	1.98	1.2	1.59
N (%)	0.12	0.08	0.1
C/N	9.4	8.62	9.14
P (mg kg <sup>-1</sup> )	3.49	5.62	4.89
Exchangeable bases c mol kg <sup>-1</sup>			
K	0.1	0.13	0.1
Ca	2	0.97	2
Mg	0.89	1.04	0.69
Na	0.12	0.08	0.08
Micronutrient (mg kg <sup>-1</sup> )			
Fe	4	4.7	5.23
Zn	32	40	29
Cu	0.14	0.17	0.19
Mn	1.3	2.3	4.8