

Supplementary Table 1. Physical and chemical properties of the soil in the experimental sites of Candói – PR, Lapa – PR, Serranópolis do Iguaçu – PR and São Miguel do Iguaçu – PR.

Attributes	Candói – PR	Lapa – PR	Serranópolis Iguaçu – PR	do São Miguel do Iguaçu – PR
Clay (g kg ⁻¹)	550	220	710	690
Silt (g kg ⁻¹)	290	310	190	150
Sand (g kg ⁻¹)	160	470	100	160
Textural Class	Clayey	Mean	Clayey	Clayey
pH (CaCl ¹)	5.35	5.42	5.29	6.56
O.M. (g dm ⁻³)	26.51	21.75	20.08	27.7
P-Mehlich (mg dm ⁻³)	3.22	4.89	7.52	8.7
K (cmol dm ⁻³)	0.46	0.12	0.62	0.63
Ca (cmol dm ⁻³)	4.56	4.06	6.13	8.1
Mg (cmol dm ⁻³)	1.95	1.35	2.23	3.16
Al (cmol dm ⁻³)	0	0	0	0
H+Al (cmol dm ⁻³)	3.88	3.06	4.51	2.74
SB (cmol dm ⁻³)	6.97	5.63	8.98	11.89
CTC _{pH7.0} (cmol dm ⁻³)	10.85	8.69	13.59	14.63

¹Measured in a 0.01 mol L⁻¹ calcium chloride (CaCl₂) solution.