

Table S1. Physical and chemical properties in two soil types in Nariño, Colombia (IGAC, 2004)

Property	Range Vitric Haplustands	Range Acrudoxic Hapludands
BD (Mg.m ⁻³)	0.78	0.82
Sand (%)	54	60
Silt (%)	34	32
Clay (%)	12	8
Texture	Sandy loam	Sandy loam
pH	5.0	5.8
OC (%)	7.55	5.22
CEC (cmol.kg ⁻¹)	43.9	26.3
ECEC (cmol.kg ⁻¹)	11.3	1.5
Ca (cmol.kg ⁻¹)	7.0	0.4
Mg (cmol.kg ⁻¹)	1.7	0.2
K (cmol.kg ⁻¹)	1.8	0.8
Na (cmol.kg ⁻¹)	0.2	0.1
P (cmol.kg ⁻¹)	2	3
Al (cmol.kg ⁻¹)	-	-
Base saturation (%)	24.4	5.7

Table S2. Physical and chemical variables measured to soil samples in the study area. * Variable directly measured at the laboratory; ** Variable computed with an equation; † Variable not directly included in statistical analyzes

Variable	Unit	Method or Instrument
*Soil pH		Potentiometer soil: water (1:1) NTC 5264
*Cation Exchange Capacity (CEC)	cmol _c ·kg ⁻¹	Ammonium acetate 1N pH 7.0 NTC 5268
*Exchangeable Calcium (Ca), *Magnesium (Mg) and *Potassium (K)		Ammonium acetate 1.0N pH 7.0-E.A.A. NTC 5349
*Soil Organic Carbon (OC)	mg·g ⁻¹	Walkley-Black (colorimetric) NTC 5403
†*True Density (TD)	Mg·m ⁻³	Pycnometer
*Bulk Density (BD)	Mg·m ⁻³	Cylinder, gravimetric
*Clay (CLA)	%	Bouyoucos
†*Water Retention Curve at Wilting Point (WRC-WP) and †*Field Capacity (WRC-FC)	%	Tension table and pressure membrane
*Infiltration (INF)	cm·h ⁻¹	Double ring infiltrometer
**Porosity (POR)	%	POR = 1 - [BD/TD]*100
**Available Water Capacity (AWC)	%	AWC = WRC-FC – WRC-WP
**Base Saturation (BS)	%	BS = ((Ca+Mg+K)/CEC)*100