

Supplementary material

Table S2. Red preluvosoil physicochemical properties at different soil layer depths

| Horizons and soil depth (cm) | Ap (0-22 cm) | Ao (22-55 cm) | A/B (55-86 cm) | Bt₁ (86-149 cm) | Bt₂ (149-220 cm) |
|---|-------------------------|--------------------------|---------------------------|---------------------------------------|--|
| Soil properties | | | | | |
| BD (g/cm ³) | 1.43 | 1.59 | 1.68 | 1.75 | 1.67 |
| TP (%) | 42.74 | 36.45 | 32.44 | 29.89 | 32.83 |
| GD (%) | 10.96 | 25.86 | 35.38 | 40.85 | 35.02 |
| Moisture (%) | 20.75 | 20.97 | 19.99 | 17.60 | 16.43 |
| pH | 5.56 | 5.59 | 6.40 | 6.89 | 7.25 |
| C _{org} (%) | 2.31 | 1.87 | 1.42 | 0.50 | 0.42 |
| Humus (%) | 3.98 | 3.22 | 2.44 | 0.86 | 0.72 |
| Nt (%) | 0.223 | 0.021 | 0.193 | 0.114 | 0.023 |
| Available P (mg/kg) | 158 | 158 | 261 | 157 | 148 |
| Available K (mg/kg) | 392 | 212 | 204 | 254 | 252 |

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Abbreviations: bulk density (BD); total porosity (TP); compaction degree (GD); organic carbon (C_{org}); total nitrogen (Nt)