**Table S1.** Pearson correlation coefficients (under the diagonal) and probabilities (over the diagonal) for soil physicochemical properties measured in the study. In bold, significant probabilities (*P* ≤ 0.05). In italics, correlation coefficients for which probabilities are significant.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Soil property** | **Clay**  **(%)** | **Sand**  **(%)** | **pH** | **C**  **(%)** | **N**  **(%)** | **P**  **(mg·kg-1)** | **Ca**  **(mg·kg-1)** | **Mg**  **(mg·kg-1)** | **K**  **(mg·kg-1)** | **Na**  **(mg·kg-1)** | **Al**  **(%)** | **CaCO3 (%)** | **CEC (meq·100 g-1)** |
| Clay (%) | - | **0.000** | **0.001** | **0.000** | **0.018** | 0.211 | 0.095 | 0.083 | 0.199 | 0.383 | **0.006** | **0.009** | 0.959 |
| Sand (%) | *-0.913* | - | **0.002** | **0.000** | **0.022** | 0.717 | 0.245 | 0.173 | 0.357 | 0.699 | **0.007** | **0.006** | 0.840 |
| pH | *0.744* | *-0.709* | - | **0.000** | **0.002** | **0.047** | **0.012** | **0.024** | 0.131 | 0.198 | **0.000** | **0.001** | 0.901 |
| C (%) | *-0.846* | *0.829* | *-0.771* | - | **0.028** | 0.182 | **0.016** | **0.037** | 0.084 | 0.317 | **0.019** | **0.011** | 0.372 |
| N (%) | *0.582* | *-0.568* | *0.715* | *-0.548* | - | 0.113 | **0.033** | **0.008** | **0.043** | 0.339 | **0.004** | **0.002** | 0.693 |
| P (mg·kg-1) | -0.331 | 0.098 | *-0.503* | *0.352* | -0.412 | - | **0.023** | 0.076 | 0.142 | 0.123 | 0.092 | 0.271 | 0.291 |
| Ca (mg·kg-1) | -0.431 | 0.308 | *-0.611* | *0.589* | *-0.534* | *0.563* | - | **0.000** | **0.005** | **0.046** | 0.072 | **0.011** | **0.042** |
| Mg (mg·kg-1) | -0.446 | 0.358 | *-0.559* | *0.525* | *-0.640* | 0.455 | *0.789* | - | **0.000** | **0.032** | 0.059 | **0.009** | 0.135 |
| K (mg·kg-1) | -0.339 | 0.247 | -0.394 | 0.446 | *-0.512* | 0.384 | *0.663* | *0.794* | - | **0.005** | 0.264 | 0.086 | 0.052 |
| Na (mg·kg-1) | -0.234 | 0.105 | -0.340 | 0.267 | -0.256 | 0.401 | *0.504* | *0.538* | *0.670* | - | 0.373 | 0.383 | **0.042** |
| AL (%) | *0.654* | *-0.645* | *0.858* | *-0.580* | *0.681* | -0.435 | -0.461 | -0.482 | -0.297 | -0.239 | - | **0.000** | 0.542 |
| CaCO3 (%) | *0.632* | *-0.658* | *0.755* | *-0.618* | *0.723* | -0.293 | *-0.618* | *-0.630* | -0.442 | -0.234 | *0.831* | - | 0.930 |
| CEC (meq·100 g-1) | -0.014 | -0.055 | -0.034 | 0.239 | 0.107 | 0.281 | *0.514* | 0.390 | 0.494 | *0.513* | 0.165 | 0.024 | - |