**Supplemental Table 1.** Soil chemical analysis (0 to 20 cm) from the experimental area before the establishment of (*Gliricidia sepium* Jacq.) and *Mimosa caesalpiniifolia* Benth.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **pH water** | **P** | **Na** | **K** | **Mg** | **Ca** | **Al** | **H+Al** | **Organic matter** |
| **1:2:5** | **mg/dm3** | **cmolc/dm3** | | | | | | **g kg** |
| ***Gliricidia sepium* Jacq.** | | | | | | | | |
| 5.4 ± 0.3 | 3.2 ± 2.5 | 0.1 ± 0.1 | 1.7 ± 1.6 | 2.0 ± 0.7 | 3.3 ± 0.7 | 0.2 ± 0.1 | 6.5 ± 1.0 | 43.1 ± 7.7 |
| ***Mimosa caesalpiniifolia* Benth.** | | | | | | | | |
| 5.4 ± 0.2 | 2.6 ± 1.5 | 0.3 ± 0.2 | 1.7 ± 1.6 | 1.9 ± 0.5 | 3.0 ± 0.4 | 0.3 ± 0.2 | 6.4 ± 0.8 | 40.8 ± 6.6 |

The standard deviation (n=3 blocks).