**SUPPLEMENTARY INFORMATION**

**TITLE:** Changes in mite richness and diversity along a gradient of land-use intensity from mid-west Ivory Coast

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**Table S1.** The Berger-Parker index (D) and Constancy (C) of soil mites in the study site. Value in bold indicated the dominant species.

**Supplementary Information**

**Table S1.** The Berger-Parker index (D) and Constancy (C) of soil mites in the study site. Value in bold indicated the dominant species.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | PF | |  | SF | |  | MTP | |  | TK94 | |  | TK00 | |  | CP | |  | F | |  | MCF | |
| Sub order | Families | Species | D | C |  | D | C |  | D | C |  | D | C |  | D | C |  | D | C |  | D | C |  | D | C |
| Gamasida | Ologamasidae | *Gamaselus* sp.1 | 0.9 | 20.0 |  | 2.8 | 40.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  | Rhodacaridae | *Rhodacarus roseus* | 1.8 | 40.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 6.1 | 40.0 |  | 3.2 | 40.0 |  | 0.0 | 0.0 |
|  | Uropodidae | *Trichouropoda* sp.1 | **13.5** | **100.0** |  | 8.3 | 60.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  |  | *Afrotrachytes* sp.1 | 9.0 | **80.0** |  | 8.3 | 60.0 |  | 6.0 | 40.0 |  | 6.4 | 40.0 |  | 4.2 | 40.0 |  | **21.2** | **80.0** |  | 4.8 | 20.0 |  | **10.0** | 20.0 |
|  |  | *Uropodide* sp.1 | 3.6 | 40.0 |  | 1.4 | 20.0 |  | 2.0 | 20.0 |  | 0.0 | 0.0 |  | 6.3 | 40.0 |  | 0.0 | 0.0 |  | 4.8 | 40.0 |  | 0.0 | 0.0 |
|  | Trachyuropodidae | *Leonardiella* sp.1 | 2.7 | 60.0 |  | 2.8 | 40.0 |  | 2.0 | 20.0 |  | 4.3 | 40.0 |  | 6.3 | 60.0 |  | **12.1** | 40.0 |  | 6.5 | 40.0 |  | **20.0** | 40.0 |
|  |  | *Circocylliba* sp.1 | 2.7 | 40.0 |  | 2.8 | 40.0 |  | 4.0 | 40.0 |  | 4.3 | 20.0 |  | 0.0 | 0.0 |  | 3.0 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  | Eviphidae | *Eviphis* sp.1 | 0.9 | 20.0 |  | 1.4 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 3.2 | 20.0 |  | 0.0 | 0.0 |
| Actinedida | Trombidiidae | *Trombidium* sp.1 | 0.9 | 20.0 |  | 0.0 | 0.0 |  | **10.0** | 60.0 |  | 6.4 | 40.0 |  | 0.0 | 0.0 |  | 6.1 | 40.0 |  | 4.8 | 20.0 |  | 0.0 | 0.0 |
|  |  | *Trombidium* sp.2 | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 2.0 | 20.0 |  | 2.1 | 20.0 |  | 2.1 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  |  | *Microtrombidium* sp.1 | 0.9 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 2.1 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 3.2 | 40.0 |  | 0.0 | 0.0 |
|  |  | *Labidostomina* sp.1 | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 2.0 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
| Acaridida | Criptoturopidae | *Allosathes* sp.1 | 1.8 | 20.0 |  | 0.0 | 0.0 |  | 2.0 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  | Syringobiidae | *Syringobia* sp.1 | 0.9 | 20.0 |  | 2.8 | 40.0 |  | 8.0 | 40.0 |  | 0.0 | 0.0 |  | 6.3 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  | Carpoglyphidae | *Carpoglyphus* sp.1 | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 3.2 | 40.0 |  | 0.0 | 0.0 |
|  |  | *Carpoglyphus* sp.2 | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | **14.5** | 40.0 |  | **10.0** | 20.0 |
|  | Saproglyphidae | *Calvolia* sp.1 | 0.0 | 0.0 |  | 1.4 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  | Hyadesiidae | *Hyadesia* sp.1 | 0.0 | 0.0 |  | 1.4 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 3.2 | 20.0 |  | 0.0 | 0.0 |
|  | Acarididae | *Acaridae* sp.1 | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 2.0 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
| Oribatida | Galumnidae | *Galumna* sp.1 | 8.1 | **80.0** |  | 5.6 | 40.0 |  | 4.0 | 40.0 |  | 2.1 | 20.0 |  | **10.4** | **80.0** |  | 3.0 | 20.0 |  | 3.2 | 20.0 |  | 0.0 | 0.0 |
|  |  | *Galumna* sp.2 | 7.2 | 60.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  | Ceratozetidae | *Trichoribates* sp.1 | 2.7 | 40.0 |  | **11.1** | 60.0 |  | **18.0** | 60.0 |  | **25.5** | 60.0 |  | **22.9** | 60.0 |  | 6.1 | 40.0 |  | 4.8 | 40.0 |  | 0.0 | 0.0 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Oribatellidae | *Oribatella* sp.1 | 0.0 | 0.0 |  | 1.4 | 20.0 |  | 2.0 | 20.0 |  | 2.1 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 1.6 | 20.0 |  | 0.0 | 0.0 |
|  |  | *Oribatella* sp.2 | 0.9 | 20.0 |  | 1.4 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 6.3 | 20.0 |  | 0.0 | 0.0 |  | 3.2 | 40.0 |  | 0.0 | 0.0 |
|  | Brachychtoniidae | *Brachychthonius* sp.1 | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 6.3 | 40.0 |  | 0.0 | 0.0 |  | 4.8 | 20.0 |  | 0.0 | 0.0 |
|  | Belbidae | *Damaeus* sp.1 | 4.5 | **80.0** |  | 8.3 | 40.0 |  | 0.0 | 0.0 |  | 4.3 | 20.0 |  | **14.6** | **80.0** |  | 3.0 | 20.0 |  | 3.2 | 20.0 |  | **10.0** | 20.0 |
|  |  | *Damaeus* sp.2 | 1.8 | 40.0 |  | 1.4 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 6.5 | 20.0 |  | 0.0 | 0.0 |
|  |  | *Damaeus* sp.3 | 0.9 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  | Phthiracaridae | *Phthiracarus* sp.1 | 4.5 | 40.0 |  | 2.8 | 40.0 |  | 6.0 | 40.0 |  | 2.1 | 20.0 |  | 0.0 | 0.0 |  | 3.0 | 20.0 |  | 1.6 | 20.0 |  | 0.0 | 0.0 |
|  | Lohmanniidae | *Lohmannia* sp.1 | **28.8** | **80.0** |  | **31.9** | **100.0** |  | **30.0** | **100.0** |  | **27.7** | **80.0** |  | **14.6** | **80.0** |  | **33.3** | 60.0 |  | **19.4** | 40.0 |  | **50.0** | 40.0 |
|  | Perlohmanniidae | *Perlohmannia* sp.1 | 0.9 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 4.3 | 40.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  | Camisiidae | *Camisiidae* sp.1 | 0.0 | 0.0 |  | 2.8 | 20.0 |  | 0.0 | 0.0 |  | 2.1 | 20.0 |  | 0.0 | 0.0 |  | 3.0 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  |  | *Camisiidae* sp.2 | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 4.3 | 20.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |  | 0.0 | 0.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

PF–Primary forest, SF–Secondary forest, MTP–Multi-species planted trees, TK94–10-year old teak plantations, TK00–4-year old teak plantations, CP–Cocoa plantations, MCF–Mixed crops fields and F–Recurrent fallows.