**MATERIAL SUPLEMENTARIO**

**SUPPLEMENTARY MATERIAL**

**Efectos de la deforestación sobre la diversidad y la estructura del ensamblaje de macroinvertebrados en cuatro quebradas Andinas en Colombia**

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Suplementario Tab. 1. Abundancia de taxa de macroinvertebrados capturados en cuatro quebradas Andinas en Colombia.

Supplementary Tab. 1. Abundance of macroinvertebrate taxa captured in four Andean streams in Colombia.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Orden/Clase**  | **Superfamilia/Familia** | **Genero/Subfamilia**  | **Estaciones alteradas**  | **Estaciones referencia** | **GFT** | **Hábitos de vida** |
|  |  |  | **Llu- Sec****Jun.11** | **Sec-Llu****Sep.11** | **Lluvia****Nov.11** | **Seca****Feb.12** | **Llu- Sec****Jun.11** | **Sec-Llu****Sep.11** | **Lluvia****Nov.11** | **Seca****Feb.12** |  |  |
| Trombidiformes  | Eylaoidea | Sin identificar |   |   |   | 1 |   |   |   |   |   |   |
| Hygrobatoidea | Sin identificar |   |   |   | 2 |   |   |   | 2 |   |   |
| Gastropoda  | Planorbidae | *Gyraulus* |   |   | 1 |   | 2 |   |   |   |   |   |
| Ampullariidae | *Pomacea* |   |   |   |   | 2 |   |   |   | PR |   |
| Gordioidea | Gordiidae | *Gordius* |   |   | 5 |   |   |   |   |   |   |   |
| [Haplotaxida](https://en.wikipedia.org/wiki/Haplotaxida) | Tubificidae | *Tubifex* | 1 |   | 3 | 9 |   |   |   |   |   |   |
| [Tricladida](https://en.wikipedia.org/wiki/Tricladida) | Planariidae | Sin identificar | 2 |   | 2 | 1 | 16 | 6 | 3 | 3 |   |   |
| Coleoptera | Dryopidae  | *Helichus* |   |   |   |   |   |   | 5 |   | CG/SH/SC | Cg |
| *Pelonomus* |   |   | 16 |   |   |   | 1 |   | CG/SC | Cb  |
| Elmidae | *Cylloepus* | 9 | 4 | 30 | 20 | 199 | 48 | 52 | 129 | CG/SC | Cg |
| *Disersus* | 3 |   | 5 | 3 | 17 | 3 | 10 | 23 | CG | Cg- Sw- Di  |
| *Heterelmis* |   |   |   |   | 1 |   |   |   | CG/SC | Cg |
| *Macrelmis* | 2 | 12 | 8 | 13 | 26 | 109 | 6 | 65 | CG/SC | Cg |
| *Narpus*  |   |   | 7 |   | 19 |   | 32 |   | CG/SC | Cg |
| *Phanocerus* |   |   |   |   |   | 1 | 4 | 16 | CG/SC | Cg- Cb  |
| Hidrophilidae | *Tropisternus* |   |   |   |   | 1 |   | 1 | 7 | PR/CG | Cb- Sw- Di  |
| Limnychidae | *Eulimnichus* |   |   |   |   | 33 | 4 | 6 |   |   |   |
| Lutrochidae | *Lutrochus* |   |   |   |   | 1 |   | 1 |   | CG | Cg |
| Psephenidae | *Psephenops* |   | 2 |   | 1 | 4 | 31 | 8 | 14 | SC | Cg |
| Ptilodactylidae | *Anchytarsus* | 1 | 2 | 11 | 1 | 25 | 15 | 26 | 51 | SH  | Cg |
| Scirtidae | *Elodes* |   |   |   |   | 1 |   |   |   | CG/SH/SC |   |
| Diptera | Blephariceridae | *Bibiocephala* | 2 | 26 | 6 | 1 |   | 2 |   |   | CG |   |
| Ceratopogonidae | *Atrichopogon* |   |   |   |   |   | 1 |   | 1 | PR/CG/SC |   |
| Chironomidae | *Chironominae*  | 28 | 1 |   | 7 | 6 |   | 2 | 17 | CG/CF | Bu  |
| *Tanypodinae* |   |   | 2 | 1 | 2 | 15 | 6 | 9 | CG/CF | Bu  |
| Dolichopodidae | *Aphrosylus* |   |   |   |   |   |   | 1 |   | PR | Cg |
| Muscidae | *Limnophora*  | 1 |   |   |   |   |   |   |   | PR | Bu  |
| Psychodidae | *Maruina* |   |   |   |   |   |   |   | 12 |   | Cg |
| Simuliidae | *Simulium* | 42 | 45 | 2 | 11 | 180 | 11 | 21 | 30 | CF | Cg |
| Tipulidae | *Hexatoma* |   |   |   |   | 1 | 2 | 1 | 2 | PR | Cg- Cb  |
| *Limonia* | 4 |   |   | 2 | 2 |   |   | 5 | SH  | Bu- Sp- Cw |
| *Tipula* |   | 5 | 1 | 11 |   |   |   | 8 | SH/CG/SC/PR | Bu  |
| Ephemeroptera | Baetidae | *Mayobaetis* | 58 | 13 | 2 | 17 | 72 | 15 | 2 | 21 | CG |   |
| *Baetodes* | 30 | 113 | 14 | 55 | 95 | 80 | 9 | 70 | SC | Cg |
| *Moribaetis*  | 13 | 12 | 16 | 5 | 5 | 20 | 2 | 27 | CG | Sw |
| Euthyplociidae | *Euthyplocia* |   |   |   |   |   | 3 | 2 | 1 | CG | Bu  |
| Leptohyphidae | *Tricorythodes* |   |   | 2 | 2 | 3 | 10 | 1 | 8 | CG/SH | Cg- Cw- Sp |
| *Leptohyphes* | 1 | 4 | 4 | 12 | 8 | 31 | 12 | 50 | CG/SH | Cg |
| Leptophlebiidae | *Thraulodes* | 33 | 13 | 15 | 7 | 39 | 116 | 110 | 106 | CG/SC | Cg- Cw- Sp |
| *Traverella* |   |   |   |   | 2 | 1 | 1 |   | CF | Cg |
| Oligoneuriidae | *Lachlania* |   |   |   |   | 7 |   |   | 11 | CF | Cg |
| Hemiptera | Belostomatidae | *Belostoma* | 2 | 1 | 1 |   |   |   | 1 |   | PR | Cb- Sw- Di  |
|  | *Lethocerus* |   |   |   |   | 2 |   |   |   | PR |   |
| Corixidae | *Tenagobia* |   |   |   |   |   | 3 |   |   | CG |   |
| Gerridae  | *Trepobates*  |   |   |   |   | 16 | 1 | 1 | 5 | PR | Sk |
| Hebridae | *Hebrus* |   |   | 1 |   | 2 |   | 3 | 5 | PR | Bu- Cb  |
| Naucoridae | *Ambrysus* |   |   |   |   | 1 |   |   |   | PR | Cg- Sw- Di  |
| *Cryphocricos* |   |   |   |   | 1 |   |   |   | PR | Cg |
| *Heleocoris* |   |   |   |   | 1 |   |   |   | PR |   |
| *Limnocoris* |   |   | 4 | 3 | 1 | 10 | 6 | 2 | PR | Cg |
| *Pelocoris* |   | 1 |   |   | 2 | 18 | 2 |   | PR |   |
| Notonectidae | *Buenoa* |   |   |   |   | 3 |   |   |   | PR |   |
| Saldidae | *Micracanthia* |   | 1 |   |   |   | 1 |   |   | PR |   |
| Veliidae | *Microvelia* | 15 |   |   |   | 1 |   |   | 2 | PR |   |
| *Rhagovelia* | 6 | 9 | 1 | 7 | 522 | 11 | 178 | 271 | PR | Sk |
| Lepidoptera | Crambidae  | *Petrophila*  |   |  3 | 1  | 8 | 10 | 22 | 2 | 34 | SC | Cg |
| Megaloptera | Corydalidae | *Corydalus* | 7 |   | 8 | 3 | 8 | 17 | 17 | 9 | PR | Cg- Cb  |
| Odonata  | Aeshnidae | *Coryphaeshna* |   |   |   |   | 2 |   |   |   | PR |   |
| Calopterygidae | *Hetaerina* | 1 | 12 | 4 | 3 | 1 | 20 | 3 | 1 | PR | Cg- Cb  |
| Coenagrionidae | *Argia* | 2 |   |   |   | 1 | 3 | 1 |   | PR | Cg- Cb- Sp  |
| Gomphidae | *Progomphus* |   |   |   |   |   |   | 2 |   | PR | Bu  |
| Libellulidae | *Erythrodiplax* |   |   |   |   | 1 |   |   |   | PR |   |
| *Macrothemis* |   | 1 | 6 | 3 | 9 | 24 | 12 | 1 | PR | Sp  |
| Megapodagrionidae | *Megapodagrion* |   |   |   |   |   | 3 |   |   | PR |   |
| Plecoptera | Perlidae | *Anacroneuria* | 12 | 13 | 39 | 18 | 106 | 76 | 75 | 147 | PR | Cg |
| Trichoptera | Glossosomatidae | *Mortoniella* | 1 | 40 |   |   |   | 13 |   |   | CG/SC | Cg |
| Hydrobiosidae | *Atopsyche* |   | 6 |   |   | 7 | 3 |   | 1 | PR | Cg- Bu |
| Hydropsychidae | *Helicopsyche* | 3 | 16 | 11 | 11 | 111 | 173 | 90 | 341 | CG/SC | Cg |
| *Leptonema* | 10 | 69 | 177 | 79 | 35 | 47 | 45 | 96 | CF |   |
| *Smicridea* | 31 | 17 | 10 | 42 | 187 | 89 | 12 | 139 | PR/CF/SH  | Cg |
| Hydroptilidae | *Hydroptila* |   |   |   |   |   | 1 |   |   | PR/SC | Cg |
| *Ochrotrichia* | 13 | 2 |   |   |   | 1 |   |   | CG | Cg |
| Leptoceridae | *Atanatolica* |   |   |   |   | 24 | 1 | 3 | 6 | CF |   |
| *Grumichella* | 2 | 19 |   | 1 | 467 | 122 | 48 | 681 | SC | Cg- Cw- Sp |
| *Nectopsyche* |   | 22 | 1 | 11 | 2 | 1 | 1 |   | CG/SH | Cb- Sw- Di  |
| *Oecetis* |   |   |   |   | 1 |   |   |   | PR | Cg- Cb- Sp  |
| *Triplectides* |   |   |   |   |   | 1 |   |   | CG/CF |   |
| Odontoceridae | *Marilia* | 5 |   |   |   |   |   |   |   | CG/SC | Sp  |
| Philopotamidae | *Chimarra* |   |   | 1 |   |   | 3 | 1 | 20 | CF | Cg |

Grupos Funcionales Tróficos (GFT): CG, colectores-recolectores; CF, colectores-filtradores; SH, trituradores herbívoros; SC, raspadores; PR, depredadores. Hábitos de vida: Bu, excavadores; Cb, escaladores; Sp, deslizadores; Sw, nadadores; Di, buceadores; Cg, fijos; Cw, rastreadores; Sk, patinadores.

Functional Feeding Groups (FFG): CG, collectors-gatherers; CF, collectors-filterers; SH, shredders; SC, scrapers; PR, predators. Life habits: Bu, Burrowers; Cb, climbers; Sp, sprawlers; Sw, swimmers; Di, divers; Cg, clingers; Cw, crawlers; Sk, skaters.