**Appendix S1.** Species cover (%) after 14 months of treatments of *Pteridium arachnoideum* (means ± 1 SE, n = 5).

|  |  |  |
| --- | --- | --- |
|  |  | Treatment |
| Family | Species | Control | Shading | Cutting | Cutting + Shading |
| Asteraceae | *Smallanthus maculatus* (Cav.) H. Rob. | 0.1±0.1 | 0.6±0.60 | 2.7±1.96 | 9.6±7.08 |
|  | *Ageratina* sp. | 0 | 0 | 0.4±0.29 | 0.4±0.10 |
|  | *Bidens odorata* Cav. | 0 | 0 | 1.2±0.15 | 0.2±0.12 |
|  | *Senecio* sp. | 0 | 0 | 0 | 0.1±0.10 |
|  | *Eupatorium pycnocephalum* Less. | 0 | 0 | 1.2±1.17 | 5.9±5.55 |
|  | *Elephantopus mollis* Kunth | 0 | 0.8±0.56 | 4.5±3.91 | 9.2±3.01 |
| Convolvulaceae | Sp. 1 | 0 | 0.6±0.60 | 0.3±0.12 | 3.0±3.00 |
| Fabaceae | *Acacia pennatula* (Schltdl. & Cham.) Benth. | 0 | 0 | 0.8±0.82 | 0.2±0.12 |
|  | *Chamaecrista nictitans* (L.) Moench. | 0 | 0 | 4.0±4.00 | 0 |
|  | *Mimosa albida* Humb. & Bonpl. ex Willd. | 0 | 0.1±0.10 | 0.1±0.10 | 0.8±0.56 |
|  | *Senna obtusifolia* (L.) H.S. Irwin & Barneby | 1.8±0.73 | 0.6±0.60 | 0.3±0.30 | 0.8±0.56 |
| Lamiaceae | *Acalypha alopecuroidea* Jacq. | 0 | 0 | 0 | 1.8±1.62 |
|  | *Hyptis* *mutabilis* (Rich.) Briq. | 0 | 0 | 2.8±1.93 | 0.3±0.12 |
| Loganiaceae | *Spigelia coelostylioides* K.R. Gould | 0 | 0 | 0.6±0.60 | 0.3±0.30 |
| Lythraceae | *Cuphea carthagenensis* (Jacq.) J.F. Macbr. | 0 | 0 | 0.1±0.10 | 0.1±0.10 |
| Malvaceae | *Sida acuta* Burm. f. | 2.7±1.96 | 0 | 2.4±1.74 | 10.6±5.62 |
|  | *Sida rhombifolia* L. | 0 | 0 | 3.0±3.00 | 0.4±0.10 |
| Melastomataceae | *Miconia* sp. | 0 | 0.1±0.10 | 0.6±0.60 | 1.3±1.11 |
| Myrsinaceae | *Myrsine coriacea* (Sw.) R.Br. ex Roem. & Schult. | 0 | 0.6±0.60 | 4.9±4.87 | 0.6±0.60 |
| Poaceae | *Dichanthelium viscidellum* (Scribn.) Gould | 0 | 0.6±0.60 | 1.3±1.30 | 20.3±8.07 |
|  | *Lasiacis* sp. | 0 | 0 | 0 | 0.1±0.10 |
|  | *Paspalum millegrana* Schrad. | 0 | 0.1±0.10 | 0.6±0.60 | 0.7±0.58 |
|  | *Urochloa maxima* (Jacq.) R.D. Webster | 41.4±12.14 | 26.5±7.44 | 37.1±11.26 | 22.2±9.43 |
|  | Sp. 2 | 2.0±2.00 | 7.5±7.50 | 0 | 5.6±5.60 |
| Polygalaceae | *Polygala paniculata* L. | 0 | 0 | 0 | 0.2±0.12 |
| Rhamnaceae | *Rhamnus capreifolia* Schltdl. | 0 | 0 | 0.6±0.60 | 1.9±1.77 |
| Rosaceae | *Rubus sapidus* Schltdl. | 0 | 0 | 0.3±0.30 | 0 |
| Rubiaceae | *Coccocypselum hirsutum* Bartl. ex DC. | 0 | 4.1±3.97 | 0.2±0.12 | 1.3±0.30 |
|  | *Crusea calocephala* DC. | 0 | 4.6±3.89 | 14.3±12.16 | 3.7±2.30 |
|  | *Richardia scabra* L. | 2.0±2.00 | 6.6±3.81 | 1.7±0.54 | 3.0±1.23 |
|  | Sp. 3 | 0 | 0 | 0.1±0.10 | 0.1±0.10 |
| Selaginellaceae | *Selaginella stellata* Spring | 0 | 0 | 0 | 0.1±0.10 |
| Smilacaceae | *Smilax* *moranensis* M. Martens & Galeotti | 0 | 0 | 0 | 0.1±0.10 |
| Solanaceae | *Solanum lanceolatum* Ruiz & Pav. | 0.6±0.60 | 0 | 0.6±0.10 | 0.5±0.45 |
|  | *Solanum schlechtendalianum* Walp. | 0 | 0 | 1.0±0.10 | 0 |
|  | *Solanum umbellatum* Mill. | 0 | 2.0±2.00 | 0 | 0 |
| Tiliaceae | *Triumfetta speciosa* Seem. | 0 | 0 | 0.3±0.32 | 0.6±0.60 |
| Verbenaceae | *Lantana camara* L. | 0 | 0 | 0.2±0.18 | 0.1±0.1 |