|  |
| --- |
| **Table 1:** Soil seed bank composition according to soil depth and fire occurrence in flood prone savannic grasslands in the Pantanal. Asterisks indicate aquatic plant species according to Plantas Aquáticas do Brasil (<https://sites.icb.ufmg.br/plantasaquaticasbrasil/index.htm>) and/or Flora do Brasil 2020 (<http://floradobrasil.jbrj.gov.br/reflora/listaBrasil/PrincipalUC/PrincipalUC.do;jsessionid=3E817C05E36974474DA700FF2F68DA7A#CondicaoTaxonCP>).  |
|  |  | **prior to fire** | **after fire** |  |
| **Family** | **Species** | **litter** | **0-2 cm** | **2-4 cm** | **4-6 cm** | **6-8 cm** | **8-10 cm** | **total** | **litter** | **0-2 cm** | **2-4 cm** | **4-6 cm** | **6-8 cm** | **8-10 cm** | **total** | **TOTAL** |
| Alismataceae | *Helianthium tenellum* (Martius) Britton |  | 1 |  |  |  |  | **1** |  |  |  |  |  |  |  | **1** |
|  | *Sagittaria guayanensis* Kunth\* |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  | **2** | **2** |
| Boraginaceae | *Euploca parciflora* (Mart.) J.I.M.Melo & Semir | 1 | 19 |  |  |  |  | **20** |  | 14 | 26 |  | 4 | 1 | **45** | **65** |
| Cyperaceae | *Cyperus haspan* L.\* | 2 | 204 | 62 | 34 | 26 | 12 | **340** | 3 | 151 | 147 | 36 | 50 | 30 | **417** | **757** |
|  | *Eleocharis acutangula* (Roxb.) Shult.\* | 1 | 26 | 6 | 6 | 7 | 9 | **55** | 1 | 13 | 13 | 2 | 3 | 1 | **33** | **88** |
|  | *E.* cf *minima* Kunth\* |  | 2 | 18 | 7 | 7 |  | **34** |  | 1 | 1 | 2 | 13 |  | **17** | **51** |
|  | *E. elegans* (Kunth) Roem. & Shult.\* |  | 24 | 17 | 7 | 7 | 4 | **59** | 1 | 14 | 3 | 2 |  | 3 | **23** | **82** |
|  | *E. geniculata* (L.) Roem. & Schult.\* |  | 1 | 2 | 1 |  |  | **4** |  |  | 1 |  | 2 |  | **3** | **7** |
|  | *E. nudipes* (Kunth) Palla\* |  | 1 | 1 | 1 |  | 1 | **4** |  |  | 3 |  |  |  | **3** | **7** |
|  | *Fimbristylis dichotoma* (L.) Vahl\* | 7 | 89 | 24 | 9 | 13 | 13 | **155** | 4 | 27 | 11 | 5 | 3 | 2 | **52** | **207** |
|  | *Rhynchospora* sp |  | 2 | 1 | 2 | 1 | 1 | **7** |  | 3 | 2 |  |  |  | **5** | **12** |
|  | *Scleria gaertneri* Raddi\* |  |  | 1 |  |  |  | **1** |  |  |  |  |  |  |  | **1** |
|  | *S. reticularis* Michx. Ex Willd. | 1 | 3 |  |  | 1 |  | **5** |  | 2 |  | 3 | 1 |  | **6** | **11** |
| Euphorbiaceae | *Euphorbia hyssopifolia* L.\* |  | 19 | 1 | 1 | 1 | 1 | **23** |  | 10 | 5 | 1 | 2 | 2 | **20** | **43** |
|  | *Phyllanthus stipulatus* (Raf.) G.L. Webster\* | 1 | 48 | 9 | 3 | 18 | 1 | **80** | 3 | 19 | 3 | 3 | 15 | 2 | **45** | **125** |
| Fabaceae | *Aeschynomene* sp\* |  | 1 |  |  |  |  | **1** |  |  |  |  |  |  |  | **1** |
|  | *Eriosema platycarpon* Micheli |  |  |  |  |  |  |  |  |  |  | 1 |  |  | **1** | **1** |
| Lythraceae | *Cuphea* sp\* |  | 1 |  |  |  |  | **1** |  |  |  |  |  |  |  | **1** |
|  | *Rotala mexicana* Cham. & Schltdl. | 1 | 543 | 304 | 120 | 69 | 39 | **1076** | 3 | 253 | 210 | 121 | 67 | 35 | **689** | **1765** |
|  | *R. ramosior* (L.) Koehne |  | 6 | 1 | 1 | 1 |  | **9** |  |  |  |  | 1 |  | **1** | **10** |
| Malvaceae | *Byttneria genistella* Triana & Planch. |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  | **2** | **2** |
|  | *Corchorus argutus* Kunth\* |  |  |  |  |  |  |  | 1 |  |  |  |  |  | **1** | **1** |
|  | *Pavonia angustifolia* Benth. |  |  |  |  |  | 1 | **1** |  |  |  |  |  |  |  | **1** |
|  | *Waltheria communis* A.St.-Hil. |  |  |  |  |  |  |  |  | 1 |  |  |  |  | **1** | **1** |
| Onagraceae | *Ludwigia decurrens* Walter\* |  |  |  |  |  |  |  |  |  |  | 1 |  |  | **1** | **1** |
|  | *L. inclinata* (L.f.) M. Gómez\* | 1 | 1 |  |  |  | 1 | **3** |  | 5 | 1 |  | 2 |  | **8** | **11** |
|  | *L. octovalvis* (Jacq.) P.H. Raven\* | 1 | 3 | 2 |  |  |  | **6** | 2 |  | 1 | 2 | 1 | 2 | **8** | **14** |
| Plantaginaceae | *Bacopa* aff. *verticillata* (Pennell & Gleason) Pennell\* |  | 7 | 6 | 1 |  |  | **14** |  | 5 | 1 | 1 |  |  | **7** | **21** |
|  | *B. australis* V.C.Souza\* | 2 | 63 | 76 | 52 | 22 | 16 | **231** | 2 | 27 | 37 | 49 | 37 | 15 | **167** | **398** |
|  | *B. reflexa* (Benth.) Edwall\* |  | 8 | 1 | 1 |  |  | **10** |  | 19 | 3 |  | 1 |  | **23** | **33** |
|  | *Conobea scoparioides* (Cham. & Schltdl.) Benth.\* |  | 4 | 4 |  |  | 1 | **9** |  | 3 |  | 1 | 2 | 3 | **9** | **18** |
|  | *Scoparia montevidensis* (Spreng.) R.E.Fr. |  | 43 | 15 | 10 | 7 | 8 | **83** |  | 70 | 47 | 72 | 18 | 10 | **217** | **300** |
| Poaceae | *Axonopus purpusii* (Mez) Chase |  | 2 |  |  | 1 | 1 | **4** |  | 5 | 3 |  |  |  | **8** | **12** |
|  | *Leersia hexandra* Sw.\* | 2 | 51 | 3 | 3 | 2 | 2 | **63** | 2 | 43 | 3 | 1 | 1 |  | **50** | **113** |
|  | *Luziola fragilis* Swallen\* |  | 6 | 2 |  |  | 1 | **9** |  | 2 | 3 | 2 |  | 1 | **8** | **17** |
|  | *Panicum dichotomiflorum* Michx.\* | 2 | 39 | 11 | 4 |  | 1 | **57** | 2 | 9 | 5 | 1 | 7 | 1 | **25** | **82** |
|  | *Paspalum lenticulare* Kunth |  | 10 | 1 |  |  |  | **11** |  | 1 |  |  |  |  | **1** | **12** |
|  | *Setaria parviflora* (Poir.) Kerghélen\* |  | 162 | 31 | 20 | 1 | 4 | **218** |  | 32 | 29 | 3 | 8 | 4 | **76** | **294** |
|  | *Steinchisma laxum* (Sw.) Zuloaga\* | 24 | 172 | 30 | 22 | 16 | 11 | **275** | 9 | 89 | 30 | 8 | 17 | 4 | **157** | **432** |
|  | Indet - Poaceae 1 |  |  |  | 1 |  |  | **1** |  |  |  |  |  |  |  | **1** |
| Polygalaceae | *Polygala appendiculata* Vell.\* |  |  | 1 |  |  |  | **1** |  |  | 2 |  |  |  | **2** | **3** |
| Pontederiaceae | *Pontederia parviflora* Alexander\* | 5 | 2 |  |  |  |  | **7** |  |  |  |  |  |  |  | **7** |
| Rubiaceae | *Borreria quadrifaria* E.L. Cabral |  |  |  |  |  |  |  |  | 1 |  |  |  |  | **1** | **1** |
|  | *B. tenella* (Kunth) Cham. & Schltdl. |  | 13 | 5 | 16 |  | 2 | **36** |  | 12 | 2 |  | 3 | 2 | **19** | **55** |
|  | *Diodia kuntzei* K.Schum.\* |  | 8 | 1 | 1 | 1 | 1 | **12** |  | 4 | 2 |  | 1 |  | **7** | **19** |
|  | Indet -Rubiaceae 1 |  |  |  |  |  |  |  |  | 2 |  |  |  |  | **2** | **2** |
|  | *Spermacoceodes* sp |  | 1 |  |  |  |  | **1** |  | 1 |  | 1 |  |  | **2** | **3** |
| Turneraceae | *Piriqueta corumbensis* Moura |  | 6 | 1 |  |  |  | **7** |  | 3 | 3 |  |  |  | **6** | **13** |
| Indet-Monocot | Monocot 1 |  | 6 |  |  | 1 | 1 | **8** | 3 | 3 |  |  |  |  | **6** | **14** |
|  | **51** | **1597** | **637** | **323** | **202** | **132** | **2942** | **36** | **845** | **598** | **319** | **260** | **118** | **2176** | **5118** |