APPENDIX

Plant species in the studied sites in the highlands of the southernmost state of Brazil, Rio Grande do Sul. In addition to family and species name, we give information on the degree of threat (FZB/RS 2014: VU: vulnerable, EN: endangered), classification as endemic species and classification of photosynthetic carbon metabolism for Poaceae species.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Plant species** | **Photosyntetic carbon metabolism**  | **Degree of threat**  | **Endemic species**   | **TAI** | **VAC** | **APA** | **ARA**  |
| Acanthaceae | *Ruellia morongii* Britton  |   |   |   |   |   | x | x |
| Achantaceae | *Stenandrium diphyllum* Nees |   |   |   |   |   | x | x |
| Amaranthaceae | *Pfaffia tuberosa* (Spreng.) Hicken |   |   |   | x | x | x | x |
| Apiaceae | *Centella asiatica* (L.) Urb. |   |   |   |   |   | x | x |
| Apiaceae | *Cyclospermum leptophyllum* (Pers.) Sprague ex Britton & P. Wilson |  |  |  | x |   |   |   |
| Apiaceae | *Eryngium ebracteatum* Lam. |   |   |   |   |   | x | x |
| Apiaceae | *Eryngium eriophorum* Cham. & Schltdl.  |   |   |   |   | x | x |   |
| Apiaceae | *Eryngium horridum* Malme |   |   |   |   |   |   | x |
| Araliaceae | *Hydrocotyle exigua* Malme |   |   |   | x | x |   | x |
| Araliaceae | *Hydrocotyle pusilla* A. Rich. |   |   |   |   |   | x |   |
| Asteraceae | *Achyrocline alata* (Kunth) DC.  |  |  |  |   |   | x |   |
| Asteraceae | *Achyrocline satureioides* (Lam.) DC. |   |   |   | x |   | x | x |
| Asteraceae | *Acmella bellidioides* (Smith) R.K.Jansen |   |   |   |   | x | x |   |
| Asteraceae | *Angelphytum* sp.  |   |   |   |   |   | x |   |
| Asteraceae | *Aspilia montevidensis* (Spreng.) Kuntze |   |   |   | x | x |   |   |
| Asteraceae | *Baccharis articulata* (Lam.) Pers. |   |   |   | x | x |   |   |
| Asteraceae | *Baccharis crispa* Spreng. |   |   |   | x | x | x | x |
| Asteraceae | *Baccharis dracunculifolia* DC. |   |   |   |   |   | x |   |
| Asteraceae | *Baccharis pentodonta* Malme |   |   |   | x | x | x | x |
| Asteraceae | *Baccharis riograndensis* L. Teodoro & J. Vidal |   |   |   | x |   | x |   |
| Asteraceae | *Baccharis subtropicalis* G. Heiden |   |   | x | x |   | x | x |
| Asteraceae | *Baccharis tridentata* Vahl |   |   |   |   |   | x |   |
| Asteraceae | *Barrosoa candolleana* (Hook. & Arn.) R.M. King & H. Rob. |   |   |   |   |   |   | x |
| Asteraceae | *Berroa gnaphalioides* (Less.) Beauverd |   |   |   | x |   |   |   |
| Asteraceae | *Calea cymosa* Less. |   |   |   | x |   | x |   |
| Asteraceae | *Calea uniflora* Baker |   |   |   |   |   | x |   |
| Asteraceae | *Calyptocarpus biaristatus* (DC.) H. Rob. |   |   |   |   |   |   | x |
| Asteraceae | *Chaptalia exscapa* (Pers.) Baker |   |   |   |   | x |   | x |
| Asteraceae | *Chaptalia integerrima* (Vell.) Burkart |   |   |   | x | x | x | x |
| Asteraceae | *Chaptalia mandonii* (Schultz-Bip.) Burkart |   |   |   | x |   | x | x |
| Asteraceae | *Chaptalia piloselloides* (Vahl) Baker |   |   |   | x | x | x |   |
| Asteraceae | *Chaptalia runcinata* Kunth |   |   |   | x | x | x | x |
| Asteraceae | *Chaptalia sinuata* (Less.) Baker |   |   |   |   | x |   |   |
| Asteraceae | *Chevreulia acuminata* Less. |   |   |   | x | x | x | x |
| Asteraceae | *Chevreulia revoluta* A.A. Schneid. & Trevis. |   |   | x |   |   | x | x |
| Asteraceae | *Chevreulia sarmentosa* (Pers.) Blake |   |   |   | x | x |   | x |
| Asteraceae | *Chromolaena ascendens* (Sch. Bip. ex Baker) R.M. King & H. Rob. |   |   |   |   | x |   |   |
| Asteraceae | *Chrysolaena flexuosa* (Sims) H. Rob. |   |   |   | x | x | x | x |
| Asteraceae | *Conyza bonariensis* (L.) Cronquist |   |   |   |   | x |   | x |
| Asteraceae | *Conyza primulifolia* (Lam.) Cuatrec. & Lourteig |   |   |   | x |   | x |   |
| Asteraceae | *Elephantopus mollis* Kunth |   |   |   |   |   |   | x |
| Asteraceae | *Eupatorium subhastatum* Hook. & Arn. |   |   |   | x |   |   | x |
| Asteraceae | *Gamochaeta americana* (Mill.) Weddell |   |   |   | x | x | x | x |
| Asteraceae | *Gamochaeta coarctata* (Willd.) Kerguélen |   |   |   |   |   | x |   |
| Asteraceae | *Gamochaeta filaginea* (DC.) Cabrera |   |   |   | x |   | x |   |
| Asteraceae | *Gamochaeta simplicicaulis* (Willd.) Cabrera |   |   |   |   | x |   |   |
| Asteraceae | *Holocheilus brasiliensis* (L.) Cabrera  |   |   |   | x |   |   | x |
| Asteraceae | *Holocheilus illustris* (Vell.) Cabrera |   |   |   |   |   |   | x |
| Asteraceae | *Hypochaeris catharinensis* Cabrera |   |   | x | x |   | x |   |
| Asteraceae | *Hypochaeris chillensis* (Kunth) Britton |   |   |   |   | x |   |   |
| Asteraceae | *Hypochaeris megapotamica* Cabrera |   |   |   | x |   |   | x |
| Asteraceae | *Hypochaeris* sp. 1 |   |   |   |   | x |   |   |
| Asteraceae | *Jaegeria hirta* (Lag.) Less. |   |   |   |   |   |   | x |
| Asteraceae | *Lessingianthus hypochaeris* (DC.) H. Rob. |   |   |   |   | x |   |   |
| Asteraceae | *Lessingianthus rubricaulis* (Bonpl.) H. Rob. |   |   |   |   | x |   |   |
| Asteraceae | *Lessingianthus sellowii* (Less.) H. Rob. |   |   |   | x | x |   |   |
| Asteraceae | *Lucilia acutifolia* (Less.) ex. Baker |   |   |   | x | x | x | x |
| Asteraceae | *Lucilia nitens* Less. |   |   |   | x | x | x | x |
| Asteraceae | *Neja filiformis* (Spreng.) Nees  |   |   |   | x |   |   |   |
| Asteraceae | *Noticastrum decumbens* (Baker) Cuatrec. |   |   | x | x | x | x | x |
| Asteraceae | *Orthopappus angustifolius* (Sw.) Gleason  |   |   |   | x |   |   | x |
| Asteraceae | *Podocoma bellidifolia* Baker |   |   |   | x |   |   |   |
| Asteraceae | *Podocoma hirsuta* (Hook.& Arn.) Baker |   |   |   |   | x |   |   |
| Asteraceae | *Pterocaulon alopecuroides* (Lam.) DC. |   |   |   | x | x |   |   |
| Asteraceae | *Senecio brasiliensis* (Spreng) Less.  |   |   |   |   | x |   |   |
| Asteraceae | *Senecio conyzifolius* Baker |   |   | x |   |   | x | x |
| Asteraceae | *Senecio selloi* (Spreng.) DC. |   |   |   | x |   |   | x |
| Asteraceae | *Stenocephalum megapotamicum* (Spreng.) Sch. Bip. |   |   |   |   | x |   |   |
| Asteraceae | *Stevia lundiana* DC. |   |   |   | x |   | x | x |
| Asteraceae | *Symphyotrichum squamatum* (Spreng.) G.L. Nesom |   |  |   |   |   | x |   |
| Asteraceae | *Trichocline catharinensis* var. *catharinensis* Cabrera |   |   |   | x | x | x | x |
| Asteraceae | *Vernonanthura nudiflora* (Less.) H. Rob. |   |   |   | x |   |   | x |
| Asteraceae | *Vernonia echioides* Less. |   |   |   |   |   | x |   |
| Asteraceae | *Viguiera anchusifolia* (DC.) Baker |   |   |   | x |   |   |   |
| Asteraceae | *Viguiera immarginata* (DC.) Herter  |   |   |   |   | x |   |   |
| Cactaceae | *Parodia haselbergii* (F. Haage) F.H. Brandt |   | VU |   | x |   |   |   |
| Cactaceae | *Parodia ottonis* (Lehm.) N.P. Taylor |   | VU |   | x |   |   |   |
| Cactaceae | *Parodia* sp.  |   |   |   | x |   |   |   |
| Calyceraceae | *Acicarpha procumbens* Less. |   |   |   |   |   | x |   |
| Campanulaceae | *Lobelia camporum* Pohl |   |   |   | x | x | x | x |
| Campanulaceae | *Triodanis* sp. |   |   |   |   |   | x |   |
| Campanulaceae | *Wahlenbergia linarioides* (Lam.) A. DC. |   |   |   | x | x | x | x |
| Caryophyllaceae | *Cerastium commersonianum* DC. |   |   |   | x |   | x | x |
| Caryophyllaceae | *Cerastium humifusum* Cambess. ex A. St.-Hil. |   |   |   |   |   |   | x |
| Cistaceae | *Helianthemum brasiliense* (Lam.) Pers.  |   |   |   | x | x | x | x |
| Commelinaceae | *Commelina* sp. |   |   |   |   |   | x |   |
| Convolvulaceae | *Cuscuta xanthochortos* Mart.  |   |   |   |   | x |   |   |
| Convolvulaceae | *Dichondra macrocalyx* Meisn. |   |   |   |   |   | x |   |
| Convolvulaceae | *Dichondra sericea* Swartz |   |   |   | x | x | x | x |
| Convolvulaceae | *Evolvulus sericeus* Sw. |   |   |   | x | x |   |   |
| Cyperaceae | *Bulbolstylis sphaerocephala* (Boeck.) C.B. Clarke  |   |   |   |   | x |   |   |
| Cyperaceae | *Bulbostylis capillaris* (L.) C.B. Clarke |   |   |   | x |   | x |   |
| Cyperaceae | *Bulbostylis juncoides* (Vahl) Kük. ex Osten |   |   |   | x |   |   |   |
| Cyperaceae | *Bulbostylis* sp. nov |   |   |   | x |   |   |   |
| Cyperaceae | *Bulbostylis subtilis* M.G. López  |   |   |   | x |   |   | x |
| Cyperaceae | *Carex longii* subsp*. meridionalis* (Kük.) Luceño & Alves |   |   |   |   |   |   | x |
| Cyperaceae | *Carex phalaroides* Kunth  |   |   |   | x |   | x | x |
| Cyperaceae | *Carex sororia* Kunth |   |   |   |   |   |   | x |
| Cyperaceae | *Cyperus aggregatus* (Willd) Endl.  |   |   |   | x |   | x | x |
| Cyperaceae | *Cyperus hermaphroditus* (Jacq.) Standl. |   |   |   |   | x |   | x |
| Cyperaceae | *Cyperus reflexus* Kunth |   |   |   | x |   | x | x |
| Cyperaceae | *Eleocharis montana* (Kunth) Roem. & Schult. |   |   |   |   |   | x |   |
| Cyperaceae | *Eleocharis nudipes* (Kunth) Palla |   |   |   |   |   | x |   |
| Cyperaceae | *Eleocharis viridans* Kük. |   |   |   |   |   | x |   |
| Cyperaceae | *Kyllinga brevifolia* Rottb.  |   |   |   |   |   | x |   |
| Cyperaceae | *Kyllinga odorata* Vahl |   |   |   | x |   |   | x |
| Cyperaceae | *Kyllinga vaginata* Lam.  |   |   |   | x | x | x | x |
| Cyperaceae | *Lipocarpha humboldtiana* Nees |   |   |   | x |   |   |   |
| Cyperaceae | *Rhynchospora barrosiana* Guagl. |   |   |   | x | x | x | x |
| Cyperaceae | *Rhynchospora brownii subsp. americana* Guagl. |   |   |   | x |   |   |   |
| Cyperaceae | *Rhynchospora emaciata* (Nees) Boeck. |   |   |   | x |   |   |   |
| Cyperaceae | *Rhynchospora flexuosa* C.B. Clarke |   |   |   |   |   | x | x |
| Cyperaceae | *Rhynchospora holoschoenoides* (Rich.) Herter |   |   |   |   |   | x |   |
| Cyperaceae | *Rhynchospora junciformis* (Kunth) Boeckeler |   |   |   | x |   |   |   |
| Cyperaceae | *Rhynchospora rugosa* (Vahl) Gale  |   |   |   | x |   | x |   |
| Cyperaceae | *Rhynchospora setigera* Griseb. |   |   |   | x |   |   | x |
| Cyperaceae | *Rhynchospora tenuis* Willd. ex Link |   |   |   | x |   |   |   |
| Cyperaceae | *Scleria distans* Poir. |   |   |   |   |   | x |   |
| Cyperaceae | *Scleria sellowiana* Kunth |   |   |   |   |   | x | x |
| Droseraceae | *Drosera brevifolia* Pursh |   |   |   |   |   | x |   |
| Ericaceae | *Gaylussacia brasiliensis* (Spreng.) Meisn. |   |   |   |   |   | x |   |
| Eriocaulaceae | Eriocaulaceae |   |   |   |   |   | x |   |
| Erythroxylaceae | *Erythroxylum microphyllum* A. St. -Hil.  |   |   |   |   | x |   |   |
| Euphorbiaceae | *Euphorbia papillosa* A. St.-Hil. |   |   |   | x |   |   |   |
| Euphorbiaceae | *Euphorbia peperomioides* Boiss. |   |   |   | x |   | x | x |
| Euphorbiaceae | *Euphorbia spathulata* Lam.  |   |   |   |   | x |   |   |
| Euphorbiaceae | *Euphorbia stenophylla* (Klotzsch & Garcke) Boiss.  |   |   |   |   |   | x |   |
| Euphorbiaceae | *Tragia bahiensis* Müll. Arg. |   |   |   | x | x |   |   |
| Euphorbiaceae | *Tragia uberabana* Müll. Arg. |   |   |   | x |   |   |   |
| Fabaceae | *Adesmia ciliata* Vogel |   |   | x |   | x |   | x |
| Fabaceae | *Aeschynomene falcata* (Poir.) DC. |   |   |   | x |   |   |   |
| Fabaceae | *Crotalaria hilariana* Benth. |   |   |   | x | x | x |   |
| Fabaceae | *Desmanthus virgatus* (L.) Willd.  |   |   |   | x |   | x | x |
| Fabaceae | *Desmodium adscendens* (Sw.) DC. |   |   |   | x | x |   |   |
| Fabaceae | *Desmodium craspediferum* A.M.G. Azevedo & M.L.A.A. Oliveira |   |   |   | x |   |   |   |
| Fabaceae | *Desmodium incanum* DC. |   |   |   | x |   |   |   |
| Fabaceae | *Desmodium triarticulatum* Malme |   |   |   | x |   |   |   |
| Fabaceae | *Desmodium uncinatum* (Jacq.) DC. |   |   |   | x |   |   |   |
| Fabaceae | *Eriosema tacuaremboense* Arechav. |   |   |   | x |   |   |   |
| Fabaceae | *Galactia gracillima* Benth. |   |   |   | x | x | x |   |
| Fabaceae | *Galactia marginalis* Benth. |   |   |   | x | x | x |   |
| Fabaceae | *Galactia neesii* DC. |   |   |   | x |   |   |   |
| Fabaceae | *Macroptilium prostratum* (Benth.) Urb. |   |   |   | x | x | x |   |
| Fabaceae | *Mimosa* sp. |   |   |   |   |   | x |   |
| Fabaceae | *Poiretia tetraphylla* (Poir.) Burkart |   |   |   |   |   | x |   |
| Fabaceae | *Rhynchosia diversifolia* Micheli  |   |   |   | x | x | x  |   |
| Fabaceae | *Stylosanthes montevidensis* Vogel |   |   |   | x | x |   |   |
| Fabaceae | *Tephrosia adunca* Benth. |   |   |   | x | x | x |   |
| Fabaceae | *Trifolium riograndense* Burkart  |   |   |   | x | x | x |   |
| Fabaceae | *Vigna peduncularis* (Kunth) Fawc. & Rendle |   |   |   | x |   | x |   |
| Fabaceae | *Zornia burkartii* Vanni |   |   |   | x |   | x | x |
| Fabaceae | *Zornia ramboana* Mohlenbr. |   |   |   | x |   |   |   |
| Hypericaceae | *Hypericum cordatum* (Vell.) N. Robson |   |   |   |   | x |   |   |
| Hypoxidaceae | *Hypoxis decumbens*  L.  |   |   |   | x | x | x | x |
| Iridaceae | *Herbertia lahue* (Molina) Goldblatt |  |  |  |   | x | x |   |
| Iridaceae | *Sisyrinchium micranthum* Cav. |   |   |   |   |   | x | x |
| Iridaceae | *Sisyrinchium palmifolium* L.  |   |   |   |   | x | x | x |
| Iridaceae | *Sisyrinchium sellowianum* Klatt |   |   |   | x |   |   |   |
| Iridaceae | *Sisyrinchium* sp. 1 |   |   |   |   |   | x |   |
| Iridaceae | *Sisyrinchium* sp. 2 |   |   |   | x |   |   |   |
| Iridaceae | *Sisyrinchium vaginatum* Spreng. |   |   |   |   |   | x | x |
| Juncaceae | *Juncus microcephalus* Kunth |   |   |   |   |   | x |   |
| Juncaceae | *Luzula ulei* Buchenau |   |   |   |   |   | x | x |
| Lamiaceae | *Cunila galioide*s Benth. |   |   |   |   | x | x |   |
| Lamiaceae | *Glechon ciliata* Benth. |   |   |   | x |   | x | x |
| Lamiaceae | *Glechon spathulata* Benth. |   |   |   |   | x |   |   |
| Lamiaceae | *Rhabdocaulon gracile* (Benth.) Epling |   |   |   |   |   | x |   |
| Lamiaceae | *Salvia ovalifolia* A. St.-Hil.  |   |   |   | x |   |   |   |
| Liancaeae | *Cliococca selaginoides* (Lam.) C.M. Rogers & Mildnerso |   |   |   |   | x |   |   |
| Loganiaceae | *Spigelia* sp.  |   |   |   |   | x |   |   |
| Lythraceae  | *Cuphea glutinosa* Cham. & Schltdl. |   |   |   | x | x |   |   |
| Malpighiaceae | *Stigmaphyllon ciliatum* (Lam.) A. Juss.  |   |   |   |   | x |   |   |
| Malvaceae | *Byttneria scabra* L. |   |   |   |   | x |   |   |
| Malvaceae | *Krapovickasia macrodon* (DC.) Fryxell |   |   |   | x | x |   | x |
| Malvaceae | *Pavonia reticulata* Garcke |   |   |   |   | x |   |   |
| Melastomaceae | *Tibouchina gracilis* Cogn. |   |   |   | x | x | x | x |
| Myrtaceae | *Campomanesia aurea* O. Berg |   |   |   | x | x | x |   |
| Myrtaceae | *Psidium australe* Cambess. |   |   |   |   | x |   |   |
| Myrtaceae | *Psidium luridum* (Spreng.) Burret |   |   |   |   | x |   |   |
| Orchidaceae | *Habenaria parviflora* Lindl. |   |   |   |   |   | x | x |
| Orchidaceae | *Rhynchanthera brachyrhyncha* Cham. |   |   |   |   |   | x |   |
| Orchidaceae | *Skeptrostachys balanophorostachya* (Rchb. f. ex Warm.) Garay |   |   |   | x |   | x | x |
| Orobanchaceae | *Agalinis communis* (Cham. & Schltdl.) D'Arcy  |   |   |   |   | x | x |   |
| Orobanchaceae | *Buchnera longifolia* Kunth |   |   |   |   |   | x | x |
| Oxalidaceae | *Oxalis bipartita* A. St.-Hil. |   |   |   |   |   | x | x |
| Oxalidaceae | *Oxalis brasiliensis* Lodd. |   |   |   |   |   | x |   |
| Oxalidaceae | *Oxalis eriocarpa* DC. |   |   |   |   |   | x |   |
| Oxalidaceae | *Oxalis lasiopetala* Zucc. |   |   |   |   |   | x |   |
| Plantaginaceae | *Plantago australis* Lam. |   |   |   | x |   |   |   |
| Plantaginaceae | *Plantago tomentosa* Lam. |   |   |   |   | x | x | x |
| Poaceae | *Agenium villosum* (Nees) Pilg. | C4 |   |   |   | x |   |   |
| Poaceae | *Agrostis lenis* Roseng., B.R. Arrill. & Izag.  | C3 | VU |   | x |   |   |   |
| Poaceae | *Agrostis montevidensis* Spreng. ex Nees | C3 |   |   | x | x | x | x |
| Poaceae | *Andropogon lateralis* Nees | C4 |   |   | x | x | x | x |
| Poaceae | *Andropogon macrothrix* Trin. | C4 |   |   | x | x | x |   |
| Poaceae | *Andropogon selloanus* (Hack.) Hack.  | C4 |   |   |   | x |   |   |
| Poaceae | *Andropogon ternatus* (Spreng.) Nees  | C4 |   |   | x | x |   | x |
| Poaceae | *Anthaenantia lanata* (Kunth) Benth. | C4 |   |   |   |   |   | x |
| Poaceae | *Aristida filifolia* (Arechav.) Herter | C4 |   |   |   | x |   |   |
| Poaceae | *Aristida flaccida* Trin. & Rupr. | C4 |   |   | x |   |   |   |
| Poaceae | *Aristida laevis* (Nees) Kunth | C4 |   |   |   |   | x |   |
| Poaceae | *Aristida venustula* Arechav. | C4 |   |   | x |   |   |   |
| Poaceae | *Axonopus affinis* Chase | C4 |   |   | x | x | x | x |
| Poaceae | *Axonopus argentinus* Parodi | C4 |   |   | x | x |   |   |
| Poaceae | *Axonopus compressus* (Sw.) P. Beauv. | C4 |   |   |   |   |   | x |
| Poaceae | *Axonopus purpusii* var. *glabrescens* Valls ex Longhi-Wagner | C4 |   |   |   | x |   |   |
| Poaceae | *Axonopus ramboi* G.A. Black | C4 |   |   |   | x | x | x |
| Poaceae | *Axonopus siccus* (Nees) Kuhlm.  | C4 |   |   | x | x | x | x |
| Poaceae | *Axonopus suffultus* (Mikan ex Trin.) Parodi  | C4 |   |   | x | x |   |   |
| Poaceae | *Bothriochloa laguroides* (DC.) Herter | C4 |   |   |   |   | x |   |
| Poaceae | *Bromus auleticus* Trin. ex Nees | C3 |   |   |   |   | x |   |
| Poaceae | *Calamagrostis viridiflavescens* (Poir.) Steud. | C3 |   |   | x |   |   | x |
| Poaceae | *Chascolytrum calotheca* (Trin.) L. Essi, Longhi-Wagner & Souza-Chies | C3 |   |   | x |   | x |   |
| Poaceae | *Chascolytrum lamarckianum* (Nees) Matthei  | C3 |   |   | x |   | x | x |
| Poaceae | *Chascolytrum poomorphum* (J. Presl) L. Essi, Longhi-Wagner & Souza-Chies  | C3 |   |   | x |   | x | x |
| Poaceae | *Chascolytrum scabrum* (Nees ex Steud.) Matthei | C3 |   |   |   |   | x |   |
| Poaceae | *Chascolytrum subaristatum* (Lam.) Desv.  | C3 |   |   | x | x |   |   |
| Poaceae | *Chascolytrum uniolae* (Nees) Essi, Longhi-Wagner & Souza-Chies  | C3 |   |   | x |   | x | x |
| Poaceae | *Danthonia cirrata* Hack. & Arechav.  | C3 |   |   | x | x |   |   |
| Poaceae | *Danthonia montana* Döll | C3 |   |   |   |   | x |   |
| Poaceae | *Danthonia secundiflora* (Swallen) Roseng., Arril. & Izag. | C3 |   |   | x |   |   |   |
| Poaceae | *Deschampsia cespitosa (L.) P. Beauv.* | C3 |  |  | x |   |   |   |
| Poaceae | *Dichanthelium sabulorum* (Lam.) Gould & C.A. Clark  | C3 |   |   | x | x | x | x |
| Poaceae | *Digitaria corynotricha* (Hack.) Henrard  | C4 |   |   |   | x |   |   |
| Poaceae | *Eragrostis airoides* Nees | C4 |   |   | x |   | x | x |
| Poaceae | *Eragrostis bahiensis* Schrad. ex Schult.  | C4 |   |   |   |   | x |   |
| Poaceae | *Eragrostis lugens* Nees | C4 |   |   | x | x | x | x |
| Poaceae | *Eragrostis neesii* Trin.  | C4 |   |   | x | x |   |   |
| Poaceae | *Eragrostis polytricha* Nees | C4 |   |   | x | x | x | x |
| Poaceae | *Eriochrysis* sp.  | C4 |   |   | x |   |   |   |
| Poaceae | *Eustachys uliginosa* (Hack.) Herter | C4 |   |   |   |   | x | x |
| Poaceae | *Gymnopogon burchellii* (Munro ex Döll) Ekman | C4 |   |   | x |   |   |   |
| Poaceae | *Gymnopogon grandiflorus Roseng., B.R. Arrill. & Izag.*  | C4 |   |   |   | x | x | x |
| Poaceae | *Ichnanthus procurrens* (Nees ex Trin.) Swallen  | C3 |   |   |   | x |   |   |
| Poaceae | *Lolium multiflorum* Lam.  | C3 |   |   |   |   |   | x |
| Poaceae | *Microchloa indica* (L. f.) P. Beauv. | C4 |   |   | x |   |   |   |
| Poaceae | *Mnesithea selloana* (Hack.) de Koning & Sosef | C4 |   |   | x | x | x | x |
| Poaceae | *Nassella filiculmis* (Delile)Barkworth | C3 |   | x | x |   |   |   |
| Poaceae | *Nassella melanosperma* (J. Presl) Barkworth | C3 |   |   | x |   |   |   |
| Poaceae | *Nassella nutans* (Hack.) Barkworth | C3 |   |   | x |   | x |   |
| Poaceae | *Nassella vallsii* (A.Zanin & Longhi-Wagner) Peñail. | C3 |   |   | x | x |   | x |
| Poaceae | *Panicum bergii* Arechav. | C4 |   |   | x |   |   | x |
| Poaceae | *Paspalum barretoi* Canto-Dorow, Valls & Longhi-Wagner | C4 |   |   |   |   | x |   |
| Poaceae | *Paspalum compressifolium* Swallen | C4 |   |   | x |   | x | x |
| Poaceae | *Paspalum dilatatum* Poir. | C4 |   |   | x |   | x | x |
| Poaceae | *Paspalum guenoarum* Arechav. | C4 |   |   |   | x |   | x |
| Poaceae | *Paspalum maculosum* Trin. | C4 |   |   | x |   | x | x |
| Poaceae | *Paspalum notatum* Flüggé | C4 |   |   | x | x |   |   |
| Poaceae | *Paspalum plicatulum* Michx. | C4 |   |   | x | x | x | x |
| Poaceae | *Paspalum polyphyllum* Nees ex Trin. | C4 |   |   | x | x | x | x |
| Poaceae | *Paspalum pumilum* Nees | C4 |   |   | x |   | x | x |
| Poaceae | *Paspalum umbrosum* Trin. | C4 |   |   |   |   |   | x |
| Poaceae | *Piptochaetium alpinum* L. B. Sm.  | C3 | VU | x |   |   | x | x |
| Poaceae | *Piptochaetium montevidense* (Spreng.) Parodi | C3 |   |   | x | x | x | x |
| Poaceae | *Piptochaetium ruprechtianum* E. Desv. | C3 |   |   | x |   | x | x |
| Poaceae | *Piptochaetium stipoides* (Trin. & Rupr.) Hack. ex Arechav. | C3 |   |   | x | x | x | x |
| Poaceae | *Poa lanigera* Swallen | C3 |   |   | x |   |   |   |
| Poaceae | *Saccharum angustifolium* (Nees) Trin. | C4 |   |   |   |   | x |   |
| Poaceae | *Sacciolepis vilvoides* (Trin.) Chase | C4 |   |   | x |   | x |   |
| Poaceae | *Schizachyrium condensatum* (Kunth) Nees  | C4 |   |   | x |   | x |   |
| Poaceae | *Schizachyrium gracilipes* (Hack.) A. Camus | C4 |   |   |   |   | x | x |
| Poaceae | *Schizachyrium hatschbachii* Peichoto | C4 |   |   | x |   | x | x |
| Poaceae | *Schizachyrium imberbe* (Hack.) A. Camus  | C4 |   |   | x |   |   |   |
| Poaceae | *Schizachyrium microstachyum* (Desv. ex Ham.) Roseng., B.R. Arrill. & Izag.  | C4 |   |   | x | x |   | x |
| Poaceae | *Schizachyrium spicatum* (Spreng.) Herter  | C4 |   |   | x |   | x | x |
| Poaceae | *Schizachyrium tenerum* Nees | C4 |   |   | x | x | x | x |
| Poaceae | *Sisyrinchium megapotamicum* Malme  | C4 |   |   |   | x | x |   |
| Poaceae | *Setaria parviflora* (Poir.) Kerguélen | C4 |   |   | x | x | x | x |
| Poaceae | *Setaria vaginata* var. *vaginata* Spreng.  | C4 |   |   | x |   |   |   |
| Poaceae | *Sorghastrum pellitum* (Hack.) Parodi | C4 |   |   | x | x | x | x |
| Poaceae | *Sporobolus camporum* Swallen | C4 |   |   | x |   | x |   |
| Poaceae | *Sporobolus indicus* (L.) R. Br. | C4 |   |   | x | x |   | x |
| Poaceae | *Steinchisma decipiens* (Nees ex Trin.) W.V. Br.  | C3 |   |   | x |   | x |   |
| Poaceae | *Steinchisma hians* (Elliott) Nash | C3 |   |   | x | x | x | x |
| Poaceae | *Trachypogon montufarii* (Kunth) Nees | C4 |   |   | x | x | x | x |
| Poaceae | *Vulpia bromoides* (L.) Gray | C3 |   |   | x |   |   |   |
| Polygonaceae | *Polygala brasiliensis* L. |   |   |   |   |   | x | x |
| Polygonaceae | *Polygala linoides* Poir.  |   |   |   | x | x | x |   |
| Polygonaceae | *Polygala molluginifolia* A. St.-Hil & Moq. |   |   |   |   |   | x |   |
| Polygonaceae | *Polygala pulchella* A. St.-Hil & Moq. |   |   |   | x |   |   | x |
| Primulaceae | *Lysimachia* sp. |   |   |   |   |   | x | x |
| Rubiaceae | *Borreria brachystemonoides* Cham. & Schltdl. |   |   |   |   |   | x |   |
| Rubiaceae | *Borreria dasycephala* (Cham. & Schltdl.) Bacigalupo & E.L. Cabral |   |   |   | x |   |   |   |
| Rubiaceae | *Borreria eryngioides* Cham. & Schltdl.  |   |   |   | x |   |   |   |
| Rubiaceae | *Borreria tenella* (Kunth) Cham. & Schltdl. |   |   |   | x |   | x |   |
| Rubiaceae | *Borreria verticillata* (L.) G. Mey. |   |   |   |   | x |   |   |
| Rubiaceae | *Diodia radula* (Willd. ex Roem. & Schult.) Delprete |   |   |   | x |   | x |   |
| Rubiaceae | *Galianthe fastigiata* Griseb. |   |   |   | x | x |   | x |
| Rubiaceae | *Galium humile* Cham. & Schltdl.  |   |   |   | x |   | x | x |
| Rubiaceae | *Galium richardianum* (Gillies ex Hook. & Arn.) Endl. ex Walp. |   |   |   | x |   |   | x |
| Rubiaceae | *Galium uruguayense* Bacigalupo |   |   |   | x |   | x |   |
| Rubiaceae | *Galium vile* (Cham. & Schltdl.) Dempster |   |   |   |   |   |   | x |
| Rubiaceae | *Oldenlandia salzmannii* (DC.) Benth. & Hook. f. ex B.D.Jacks |   |   |   | x |   |   | x |
| Rubiaceae | *Richardia brasiliensis* Gomes |   |   |   | x | x |   |   |
| Rubiaceae | *Richardia humistrata* (Cham. & Schltdl.) Steud.  |   |   |   | x | x | x | x |
| Scrophulariaceae | Scrophulariaceae |   |   |   |   |   |   | x |
| Solanaceae | *Calibrachoa sellowiana* (Sendtn.) Wijsman |   |   |   |   | x |   |   |
| Solanaceae | *Petunia integrifolia* Schinz & Thell. |   |   |   | x |   | x |   |
| Solanaceae | *Solanum aculeatissimum* Jacq. |   |   |   |   |   |   | x |
| Turneraceae | *Turnera sidoides* L. |   |   |   |   | x |   |   |
| Verbenaceae | *Glandularia catharinae* (Moldenke) N. O'Leary & P. Peralta  |   |   |   | x |   |   |   |
| Verbenaceae | *Glandularia marrubioides* (Cham.) Tronc. |   |   |   |   | x | x |   |
| Verbenaceae | *Verbena hirta* Spreng. |   |   |   |   |   | x |   |
| Verbenaceae | *Verbena rigida* Spreng. |   |   |   | x |   | x |   |