

- 1 Appendix S1. Family, species name and life form of the surveyed species in the plots
 2 (10 ×10 m; n=12) in São Francisco de Paula, Rio Grande do Sul, southern Brazil.

Family	Species	Life form
Amaranthaceae	<i>Pfaffia tuberosa</i> (Spreng.) Hicken	Forb
Aquifoliaceae	<i>Ilex microdonta</i> Reissek	Tree
Asteraceae	<i>Baccharis trimera</i> (Less.) DC.	Shrub
Asteraceae	<i>Calea serrata</i> Less.	Forb
Asteraceae	<i>Chaptalia graminifolia</i> (Dusén ex Dusén) Cabrera	Forb
Asteraceae	<i>Chromolaena ascendens</i> (Sch.Bip. ex Baker) R.M.King & H.Rob.	Shrub
Asteraceae	<i>Eupatorium</i> sp.1 L.	Shrub
Asteraceae	<i>Eupatorium</i> sp.2 L.	Shrub
Asteraceae	<i>Gochnatia</i> sp. Kunth	Shrub
Asteraceae	<i>Hypochaeris</i> sp. L.	Forb
Asteraceae	<i>Lucilia</i> sp.1 Cass.	Forb
Asteraceae	<i>Lucilia</i> sp.2 Cass.	Forb
Asteraceae	<i>Mikania decumbens</i> Malme	Forb
Asteraceae	Shrub 2	Shrub
Asteraceae	Shrub 3	Shrub
Campanulaceae	Forb 3	Forb
Cyperaceae	<i>Rhynchospora gollmeri</i> Boeckeler	Grass
Ericaceae	<i>Gaylussacia brasiliensis</i> (Spreng.) Meisn	Shrub
Euphorbiaceae	<i>Euphorbia</i> sp. L.	Forb
Iridaceae	<i>Sisyrinchium</i> sp. L.	Forb
Melastomataceae	<i>Leandra</i> sp. Raddi	Shrub

Melastomataceae	<i>Miconia cinerascens</i> Miq.	Shrub
Melastomataceae	<i>Miconia cordifolia</i> Wurdack	Shrub
Melastomataceae	<i>Miconia</i> sp. Ruiz & Pav.	Forb
Melastomataceae	<i>Tibouchina gracilis</i> (Bonpl.) Cogn.	Shrub
Melastomataceae	<i>Tibouchina</i> sp.1 Aubl	Shrub
Melastomataceae	<i>Tibouchina</i> sp.2 Aubl	Shrub
Oriquidaceae	<i>Habenaria</i> sp. Willd.	Forb
Poaceae	<i>Andropogon laterialis</i> Nees	Grass
Poaceae	<i>Aristida</i> sp. L.	Grass
Poaceae	<i>Axonopus siccus</i> (Nees) Kuhlms.	Grass
Poaceae	<i>Danthonia</i> sp. D.C.	Grass
Poaceae	<i>Dichantherium sabulorum</i> (Lam.) Gould & C.A. Clark	Grass
Poaceae	<i>Digitaria</i> sp. Haller	Grass
Poaceae	<i>Schizachyrium tenerum</i> Nees	Grass
Poaceae	<i>Setaria parviflora</i> (Poir.) M.Kerguelen	Grass
Poaceae	<i>Trachypogon montufarii</i> (Kunth) Nees	Grass
Polygalaceae	<i>Polygala brasiliensis</i> L.	Forb
Rubiaceae	<i>Galium hirtum</i> Lam.	Forb
Urticaceae	Shrub 4	Shrub
Verbenaceae	<i>Glandularia</i> sp. J.F. Gmel.	Shrub
Verbenaceae	<i>Verbena</i> sp. L.	Shrub
Unidentified	Forb 1	Forb
Unidentified	Forb 2	Forb
Unidentified	Shrub 1	Shrub
Unidentified	Shrub 1	Shrub