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Railway in the Paranapiacaba district (São Paulo state, Brazil) as a space for maintaining local biodiversity

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Table S1 – Occurrence of angiosperms in the stretches between the railway stations in the study area. T1 = connects Ribeirão Pires and Rio Grande da Serra stations; T2 = connects Rio Grande da Serra and Campo Grande stations; T3 = Connects Campo Grande and Paranapiacaba stations; T4 = connects Paranapiacaba and Raiz da Serra stations; * = exotic species according to BFG (2021); ** = native species recommended for ecological restoration according to Barbosa *et al*. (2017).

Families/species	T1	T2	T3	T4
Acanthaceae				
Ruellia blechum L. *		×		
Amaranthaceae				
Alternanthera paronychioides A.St.-Hil.	×	×	×	×
Amaranthus spinosus L. *	×	×		
Hebanthe erianthos (Poir.) Pedersen **	×			
Amaryllidaceae				
Nothoscordum gracile (Aiton) Stearn	×	×	×	×
Anacardiaceae				
Schinus terebinthifolia Raddi **	×			
Apiaceae				
Cyclospermum leptophyllum (Pers.) Sprague *ex* Britton & P.Wilson	×	×	×	×
Apocynaceae				
Asclepias curassavica L.	×	×		×
Orthosia urceolata E.Fourn.		×		
Araceae				
Spirodela punctata (G.Mey.) C.H.Thomps.				×
Araliaceae				
Hydrocotyle bonariensis Lam.	×			
H. leucocephala Cham. & Schltdl.	×	×	×	×

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Families/species	T1	T2	T3	T4
Arecaceae				
Bactris setosa Mart. **				×
Asteraceae				
Achyrocline saturejoides (Lam.) DC. **		×	×	
Ageratum conyzoides L.	×	×	×	×
Ambrosia polystachya DC. **	×	×		
Apopyros corymbosus (Hook. & Arn.) G.L.Nesom			×	
Austroeupatorium inulifolium (Kunth) R.M.King & H.Rob. **				×
Baccharis anomala DC. **	×	×	×	×
B. conyzoides DC.		×		
B. crispa Spreng. **	×	×	×	
Bidens pilosa L. *	×	×	×	×
Chaptalia nutans (L.) Pol. **	×	×	×	×
Chromolaena laevigata (Lam.) R.M.King & H.Rob. **	×	×	×	×
Critoniopsis quinqueflora (Less.) H.Rob. **		×		
Cyrtocymura scorpioides (Lam.) H.Rob.	×	×	×	×
Eclipta prostrata (L.) L.	×	×	×	×
Elephantopus mollis Kunth **	×	×	×	×
Emilia fosbergii Nicolson *	×	×	×	×
Erechtites hieraciifolius (L.) Raf. *ex* DC. **			×	×
E. valerianifolius (Link ex Spreng.) DC.	×	×	×	×
Erigeron bonariensis L.	×	×	×	×
Galinsoga parviflora Cav. *	×	×	×	×
Gamochaeta americana (Mill.) Wedd.	×	×	×	×
Heterocondylus alatus (Vell.) R.M.King & H.Rob. **			×	×
Holocheilus pinnatifidus (Less.) Cabrera	×	×	×	×
Hypochaeris radicata L. *	×	×	×	×
Jaegeria hirta (Lag.) Less.	×	×	×	×
Lepidaploa muricata (DC.) H.Rob.	×			
Leptostelma maximum D.Don	×	×	×	×
Mikania banisteriae DC.		×	×	
M. micrantha Kunth **	×	×	×	×
Mikania sp.	×			
Orthopappus angustifolius (Sw.) Gleason **	×		×	
Perezia squarrosa Less.	×	×		×
Piptocarpha oblonga (Gardner) Baker **		×		
Pluchea sagittalis (Lam.) Cabrera *		×		
Praxelis clematidea (Hieron. *ex* Kuntze) R.M.King & H.Rob.	×	×	×	
Pseudelephantopus spiralis (Less.) Cronquist		×		

Families/species	T1	T2	T3	T4
Pterocaulon alopecuroides (Lam.) DC. **	×	×		
Senecio brasiliensis (Spreng.) Less.	×	×	×	
Solidago chilensis Meyen **	×	×		
Sonchus oleraceus L.	×	×	×	×
Sphagneticola trilobata (L.) Pruski	×	×	×	×
Synedrella nodiflora (L.) Gaertn.				×
Tithonia diversifolia (Hemsl.) A.Gray *	×			
Tridax procumbens L. *	×	×	×	×
Trixis divaricata (Kunth) Spreng.				×
T. lessingii DC.	×	×	×	
Vernonanthura discolor (Spreng.) H.Rob. **				×
V. divaricata (Spreng.) H.Rob.				×
Vernonanthura sp.			×	×
Youngia japonica (L.) DC. *	×	×	×	×
Asteraceae sp1	×			
Asteraceae sp2		×		×
Asteraceae sp3		×	×	×
Asteraceae sp4				×
Asteraceae sp5		×	×	
Asteraceae sp6	×	×	×	×
Balsaminaceae				
Impatiens walleriana Hook. f. *	×	×	×	×
Begoniaceae				
Begonia cucullata Willd. **	×	×	×	×
B. fischeri Schrank **	×	×	×	×
B. odeteiantha Handro				×
B. valdensium A.DC.			×	×
Bignoniaceae				
Handroanthus chrysotrichus (Mart. *ex* DC.) Mattos **		×		
Tecoma stans (L.) Juss. ex Kunth *	×			×
Boraginaceae				
Varronia urticifolia (Cham.) J.S.Mill.	×	×	×	
Brassicaceae				
Cardamine bonariensis Juss. *ex* Pers. *	×	×	×	
Lepidium didymus L. *		×		
L. virginicum L. *		×	×	×
Nasturtium officinale W.T.Aiton *		×		×
Raphanus raphanistrum L. *			×	
R. raphanistrum subsp. *sativus* (L.) Domin. *		×		

Families/species	T1	T2	T3	T4
Bromeliaceae				
Tillandsia geminiflora Brongn.	×			
Vriesea altodaserrae L.B.Sm.	×	×		
V. inflata (Wawra) Wawra				×
Cactaceae				
Rhipsalis puniceodiscus G.Lindb. **		×		
R. teres (Vell.) Steud. **		×		×
Campanulaceae				
Lobelia thapsoidea Schott *ex* Pohl		×		×
Cannaceae				
Canna indica L.	×	×		
Caprifoliaceae				
Lonicera japonica Thunb. *				×
Caryophyllaceae				
Cerastium glomeratum Thuill. *	×		×	
Drymaria cordata (L.) Willd. *ex* Schult. *	×	×	×	×
Cleomaceae				
Cleome houtteana Schltdl.	×			
Commelinaceae				
Commelina benghalensis L. *			×	
C. diffusa Burm.f. *	×	×	×	×
C. obliqua Vahl	×	×	×	×
Tripogandra diuretica (Mart.) Handlos	×	×	×	×
Convolvulaceae				
Ipomoea cairica (L.) Sweet **	×	×	×	×
I. indica (Burm.) Merr. **	×			×
I. ramosissima (Poir.) Choisy	×	×	×	
Costaceae				
Costus spiralis (Jacq.) Roscoe **				×
Cucurbitaceae				
Cayaponia martiana (Cogn.) Cogn.		×	×	×
Melothria hirsuta Cogn.	×		×	
Sicyos edulis Jacq. *	×			
Wilbrandia ebracteata Cogn.		×		
W. verticillata (Vell.) Cogn.	×	×		
Cyperaceae				
Cyperus aggregatus (Willd.) Endl.	×	×	×	×
C. brevifolius (Rottb.) Hassk.	×	×	×	×
C. crassipes Vahl *		×	×	×

Families/species	T1	T2	T3	T4
C. flavescens L.		×		
C. luzulae (L.) Retz.	×	×		×
C. mundii (Nees) Kunth *		×	×	
C. odoratus L.	×	×	×	×
C. pohlii (Nees) Steud.	×	×	×	×
C. polystachyos Rottb.	×	×		
C. prolixus Kunth	×	×	×	×
C. reflexus Vahl		×		
C. rigens J.Presl & C.Presl	×	×		
C. surinamensis Rottb.	×	×		×
Cyperus sp1				×
Cyperus sp2			×	×
Eleocharis geniculata (L.) Roem. & Schult.		×		
E. minima Kunth	×	×		
Fimbristylis complanata (Retz.) Link		×		
Rhynchospora holoschoenoides (Rich.) Herter		×		
Scleria panicoides Kunth		×	×	×
Eriocaulaceae				
Syngonanthus caulescens (Poir.) Ruhland **		×		
Euphorbiaceae				
Acalypha alopecuroidea Jacq.		×	×	
Croton lundianus (Didr.) Müll.Arg.	×		×	×
Euphorbia graminea Jacq. *	×	×	×	
E. hirta L.		×	×	
E. hyssopifolia L.	×	×	×	
Ricinus communis L. *	×	×		
Fabaceae				
Chamaecrista nictitans (L.) Moench **	×	×	×	
C. trichopoda (Benth.) Britton & Rose *ex* Britton & Killip	×			
Crotalaria claussenii Benth.	×		×	×
C. lanceolata E.Mey. *	×	×	×	
Ctenodon brasilianus (Poir.) D.B.O.S.Cardoso, P.L.R.Moraes & H.C.Lima	×	×		
Desmodium incanum (Sw.) DC. *	×	×	×	×
Erythrina speciosa Andrews **	×			
Grona adscendens (Sw.) H.Ohashi & K.Ohashi *	×	×	×	×
Leucaena leucocephala (Lam.) de Wit *	×		×	
Medicago lupulina L. *	×	×	×	×
Rhynchosia sp.	×		×	
Vicia sativa subsp. *nigra* Ehrh. *	×			

Families/species	T1	T2	T3	T4
Zornia burkartii Vanni	×	×		
Gesneriaceae				
Codonanthe gracilis (Mart.) Hanst.				×
Nematanthus fritschii Hoehne				×
Sinningia elatior (Kunth) Chautems **	×	×	×	
S. schiffneri Fritsch **				×
Hydrangeaceae				
Hydrangea macrophylla (Thunb.) Ser. *			×	×
Hypericaceae				
Hypericum brasiliense Choisy		×	×	×
Hypoxidaceae				
Hypoxis decumbens L.	×	×	×	×
Iridaceae				
Crocosmia x crocosmiiflora (Lemoine) N.E.Br. *	×	×	×	×
Sisyrinchium micranthum Cav. **	×	×	×	×
S. minus Engelm. & A.Gray *				×
Juncaceae				
Juncus imbricatus Laharpe	×	×	×	×
J. microcephalus Kunth		×	×	
J. tenuis Willd.	×	×	×	×
Lamiaceae				
Hyptis lacustris A.St.-Hil. *ex* Benth.		×		
H. radicans (Pohl) Harley & J.F.B.Pastore **			×	
Mesosphaerum sidifolium (L'Hér.) Harley & J.F.B.Pastore				×
Stachys arvensis (L.) L. *		×		
Lauraceae				
Ocotea nectandrifolia Mez **		×		
Persea americana Mill. *			×	
Lythraceae				
Cuphea calophylla Cham. & Schltdl.	×	×	×	×
C. carthagenensis (Jacq.) J.F. Macbr.	×	×	×	×
Malpighiaceae				
Heteropterys nitida (Lam.) DC.				×
Malvaceae				
Malvaviscus arboreus Dill. *ex* Cav. *	×			
Sida acuta Burm.f.	×	×		×
S. glaziovii K.Schum. **	×	×		×
Triumfetta semitriloba Jacq. **		×		
Urena lobata L.				×

Families/species	T1	T2	T3	T4
Melastomataceae				
Acisanthera alsinefolia (DC.) Triana	×	×		
Chaetogastra gracilis (Bonpl.) DC.	×	×		
Leandra sp1		×		
Leandra sp2		×	×	
Miconia auricoma (Spring *ex* Mart.) R.Goldenb. **	×	×	×	×
Miconia sellowiana Naudin **	×	×	×	×
Miconia sublanata (Cogn.) R.Goldenb. **		×		
Pleroma clavatum (Pers.) P.J.F.Guim. & Michelang. **	×	×	×	×
P. fothergillae (DC.) Triana **				×
P. mutabile (Vell.) Triana **	×			
P. raddianum (DC.) Gardner **	×	×	×	
Tibouchina sp1		×	×	
Tibouchina sp2		×	×	×
Moraceae				
Morus nigra L. *	×			×
Musaceae				
Musa ornata Roxb. *	×		×	
Myrtaceae				
Psidium guajava L. *		×		×
Nyctaginaceae				
Bougainvillea glabra Choisy **	×			
Ochnaceae				
Sauvagesia erecta L. **	×	×	×	×
Onagraceae				
Fuchsia regia (Vand. ex Vell.) Munz		×	×	×
Ludwigia longifolia (DC.) H.Hara	×	×	×	×
L. octovalvis (Jacq.) P.H.Raven	×	×	×	
Oenothera indecora Cambess.			×	
Oenothera sp.	×		×	
Orchidaceae				
Cranichis candida (Barb.Rodr.) Cogn.				×
Epidendrum secundum Jacq. **	×	×		×
Gomesa flexuosa (G.Lodd.) M.W.Chase & N.H.Williams			×	
Prescottia montana Barb. Rodr. **				×
Sacoila lanceolata (Aubl.) Garay **				×
Oxalidaceae				
Oxalis corniculata L. *	×	×	×	
O. debilis Kunth		×	×	×

Families/species	T1	T2	T3	T4
Passifloraceae				
Passiflora amethystina J.C.Mikan				×
Phyllanthaceae				
Phyllanthus niruri L.	×	×	×	×
P. urinaria L.		×	×	
Phytolaccaceae				
Phytolacca thyrsiflora Fenzl. *ex* J.A.Schmidt **	×			
Piperaceae				
Piper aduncum L.		×	×	×
P. lanceolatum Ruiz & Pav. **				×
P. oblancifolium Yunck. **				×
Plantaginaceae				
Bacopa scoparioides (Cham. & Schltdl.) Scatigna		×		
Callitriche deflexa A.Braun *ex* Hegelm.	×	×	×	
Linaria canadensis (L.) Chaz. *	×	×	×	
Matourea ocymoides (Cham. & Schltdl.) Colletta & V.C.Souza			×	
Mecardonia procumbens (Mill.) Small		×	×	×
Plantago australis Lam.	×	×	×	×
Scoparia dulcis L. **	×	×	×	×
Stemodia verticillata (Mill.) Hassl.	×	×	×	×
Poaceae				
Agrostis montevidensis Spreng. ex Nees **		×	×	×
Andropogon bicornis L. **	×	×	×	×
A. leucostachyus Kunth **	×	×	×	
Arundinella hispida (Kunth *ex* Willd.) Kuntze **	×	×	×	×
Axonopus aureus P. Beauv. **	×			
Briza minor L. *		×	×	×
Cenchrus purpureus (Schumach.) Morrone *	×	×	×	×
Cinnagrostis viridiflavescens (Poir.) P.M.Peterson, Soreng, Romasch. & Barberá **	×	×	×	×
Coix lacryma-jobi L. *	×	×	×	×
Cortaderia selloana (Schult. & Schult.f.) Asch. & Graebn. **	×	×	×	×
Cynodon dactylon (L.) Pers. *			×	
Eleusine indica (L.) Gaertn. *	×			
Eragrostis cataclasta Nicora *		×		
E. pilosa (L.) P.Beauv. *	×	×	×	×
Erianthus trinii (Hack.) Hack. **	×		×	
Ichnanthus pallens (Sw.) Munro *ex* Benth. **			×	×
Lolium multiflorum Lam. *		×		
Melinis minutiflora P.Beauv. *	×	×	×	×

Families/species	T1	T2	T3	T4
M. repens (Willd.) Zizka *	×	×	×	
Paspalum conjugatum P.J.Bergius **	×	×	×	×
P. paniculatum L. **	×	×	×	×
Phalaris angusta Nees ex Trin.	×	×	×	
Phyllostachys aurea (André) Rivière & C.Rivière *		×		×
Poa annua L. *	×	×	×	×
Pseudechinolaena polystachya (Kunth) Stapf **		×		×
Rugoloa pilosa (Sw.) Zuloaga **	×	×	×	×
Setaria parviflora (Poir.) Kerguélen	×	×	×	×
Sporobolus indicus (L.) R.Br. **	×	×	×	×
Steinchisma decipiens (Nees *ex* Trin.) W.V.Br. **	×	×	×	
Urochloa brizantha (A. Rich.) R.D.Webster *	×	×	×	×
Polygalaceae				
Senega paniculata (L.) J.F.B.Pastore & J.R.Abbott **	×		×	×
Polygonaceae				
Persicaria capitata (Buch.-Ham. *ex* D.Don) H.Gross *		×	×	×
P. hydropiperoides (Michx.) Small	×	×	×	×
Rumex brasiliensis Link	×	×		
R. crispus L. *	×	×		
R. obtusifolius L. *	×	×		
Pontederiaceae				
Heteranthera reniformis Ruiz & Pav. **	×	×	×	×
Primulaceae				
Lysimachia arvensis (L.) U.Manns & Anderb. **		×	×	×
Rosaceae				
Eriobotrya japonica (Thunb.) Lindl. *	×			×
Rubus brasiliensis Mart. **	×	×		
R. rosifolius Sm. var. *rosifolius* **	×	×	×	×
R. urticifolius Poir. **				×
Rubiaceae				
Galianthe palustris (Cham. & Schltdl.) Cabanã Fader & E.L.Cabral		×	×	
Oldenlandia salzmannii (DC.) Benth. & Hook.f. *ex* B.D.Jacks.**	×	×	×	×
Richardia brasiliensis Gomes	×	×	×	×
Spermacoce capitata Ruiz & Pav. **	×	×	×	×
S. schumannii (Standl. ex Bacigalupo) Delprete		×		
Sapindaceae				
Paullinia carpopodea Cambess. **		×		
Serjania gracilis Radlk.		×		
Scrophulariaceae				

Families/species	T1	T2	T3	T4
Buddleja stachyoides Cham. & Schltdl. **	×	×	×	×
Scrophularia oblongifolia Loisel. *			×	
Verbascum virgatum Stokes	×	×		×
Solanaceae				
Athenaea fasciculata (Vell.) I.M.C.Rodrigues & Stehmann		×		
Solanum americanum Mill. **	×	×	×	×
S. campaniforme Willd. **			×	×
S. cernuum Vell.	×		×	
S. didymum Dunal **			×	×
S. lycopersicum L. *	×	×		
S. mauritianum Scop. **	×		×	×
S. variabile Mart. **	×	×		×
Typhaceae				
Typha domingensis Pers. **	×			
Urticaceae				
Boehmeria caudata Sw. **			×	×
B. cylindrica (L.) Sw.				×
Cecropia glaziovii Snethl. **	×			×
Pilea microphylla (L.) Liebm. *	×	×	×	×
Urera nitida (Vell.) P.Brack **	×			×
Verbenaceae				
Lantana camara L. *	×	×	×	×
L. horrida subsp. *tiliifolia* (Cham.) R.W.Sanders *		×	×	×
Verbena litoralis Kunth	×	×	×	×
V. officinalis L. *	×	×	×	×
Vitaceae				
Cissus paullinifolia Vell. **	×			
Xyridaceae				
Xyris jupicai Rich. **	×	×		
Zingiberaceae				
Alpinia zerumbet (Pers.) B.L.Burtt & R.M.Sm. *	×			
Hedychium coronarium J.Koenig *	×	×	×	×