



Figure 1. Location of the 14 hedgerows sampled in Londrina region, Parana state, Brazil in the Atlantic Forest Domain. Yellow circles are representing the coordinates of the center of the hedgerow. The underlining image is from Google Earth.

Table 1. List of species sampled in 14 hedgerows (vegetation strips that served or still serves as the delimitation of rural fields or as windbreaks) in Londrina region, Parana state, Brazil in the Atlantic Forest Domain. SG: successional status, being PE – pioneer and early secondary, LC – late secondary and climax species. In dispersal, Zoo – zoochory, Ane – anemochory and Aut – autochory.

Family	Species name	SG	Habit	Dispersal
Acanthaceae	<i>Geissomeria pubescens</i> Nees.	-	liana	-
	<i>Ruellia angustifolia</i> Sw.	-	shrub	-
Amaranthaceae	<i>Alternanthera tenella</i> Colla	-	liana	-
	Amaranthaceae 1	-	shrub	-
	<i>Chamissoa altissima</i> (Jacq.) Kunth	-	shrub	-
	<i>Hebanthe paniculata</i> Mart.	-	liana	-
Anacardiaceae	<i>Astronium graveolens</i> Jacq.	LC	tree	ane
	<i>Mangifera indica</i> L.	-	tree	-
	<i>Schinus terebinthifolius</i> Raddi	PE	tree	zoo
Annonaceae	<i>Rollinia sylvatica</i> (A. St- Hill) Martius	LC	tree	zoo
Apocynaceae	<i>Aspidosperma polyneurn</i> Müll. Arg.	LC	tree	ane
	<i>Condylocarpon isthmicum</i> (Vell.) A. DC.	-	liana	-
	<i>Forsteronia refracta</i> Müll. Arg.	-	liana	-
	<i>Forsteronia thyrsoides</i> (Vell.) Müll. Arg.	-	liana	-
	<i>Peltastes peltatus</i> (Vell.) Woodson	-	liana	-
	<i>Prestonia coalita</i> (Vell.) Woodson	-	-	-
	<i>Tabernaemontana australis</i> Müll. Arg.	PE	tree	zoo
	<i>Euterpe edulis</i> Mart.	LC	tree	zoo
Arecaceae	<i>Syagrus romanzoffiana</i> (Cham.) Glassm	LC	tree	zoo
	<i>Fischeria martiana</i> Decne.	-	liana	-
Asclepiadaceae	<i>Fischeria martiana</i> Decne.	-	liana	-
Asteraceae	Asteraceae 1	-	shrub	-
	<i>Baccharidastrum triplenerve</i> (Less.) Cabrera	-	shrub	-
	<i>Eupatorium laevigatum</i> Lam.	-	shrub	-
	<i>Eupatorium maximiliani</i> Schrader	-	shrub	-
	<i>Eupatorium</i> sp. 1	-	shrub	-
	<i>Eupatorium</i> sp. 2	-	shrub	-
	<i>Mikania hemisphaerica</i> Sch. Bip. ex Baker	-	liana	-
	<i>Mikania</i> sp.	-	liana	-
	<i>Vernonia ferrugine</i> Less.	-	shrub	-
	<i>Vernonia incana</i> Less.	-	liana	-
	<i>Vernonia polyanthes</i> Less.	-	shrub	-
Bignoniaceae	<i>Adenocalymma marginatum</i> (Cham.) DC.	-	liana	-
	<i>Adenocalymma paulistarum</i> Bureau & K. Schum.	-	liana	-
	<i>Anemopaegma acutifolium</i> DC.	-	liana	-
Bignoniaceae	<i>Arrabidaea florida</i> A. DC.	-	liana	-
	<i>Bignonia</i> sp.	-	liana	-
	Bignoniaceae 1	-	liana	-
	Bignoniaceae 2	-	liana	-
	<i>Cuspidaria erubescens</i> (DC.) Bureau	-	liana	-
	<i>Jacaranda caroba</i> (Vell.) A. DC.	PE	tree	ane
	<i>Macfadyena unguis-cati</i> (L.) A.H. Gentry	-	liana	-
	<i>Pithecoctenium crucigerum</i> (L.) A. H. Gentry	-	liana	-
	<i>Pyrostegia venusta</i> (Ker Gawl.) Miers	-	liana	-
	<i>Tecoma stans</i> (L.) Juss. ex Kunth	-	tree	-

Continues.

Plant diversity in hedgerows amidst Atlantic Forest fragments

Table 1. Continuation.

Family	Species name	SG	Habit	Dispersal
Boraginaceae	<i>Cordia ecalyculata</i> Vell.	LC	tree	zoo
	<i>Cordia trichotoma</i> (Vell.) Arráb. ex Steud.	PE	tree	ane
	<i>Patagonula americana</i> L.	PE	tree	ane
Cactaceae	<i>Cereus jamacaru</i> DC.	-	shrub	-
	<i>Pereskia aculeata</i> Mill.	-	liana	-
Caricaceae	<i>Carica papaya</i> L.	-	tree	-
	<i>Jacaratia spinosa</i> (Aubl.) A. DC.	PE	tree	zoo
Celastraceae	<i>Maytenus ilicifolia</i> (Schrad.) Planch.	LC	tree	zoo
Convolvulaceae	<i>Merremia macrocalyx</i> (Ruiz & Pav.) O'Donell	-	liana	-
Curcubitaceae	<i>Melothria cucumis</i> Vell.	-	liana	-
	<i>Momordica charantia</i> L.	-	liana	-
	<i>Sicyos polyacanthus</i> Cogn.	-	liana	-
	<i>Wilbrandia verticillata</i> Cogn.	-	liana	-
Dioscoriaceae	Dioscoriaceae 1	-	liana	-
Euphorbiaceae	<i>Alchornea glandulosa</i> Poepp.	PE	tree	zoo
	<i>Alchornea triplinervia</i> (Spreng.) Müll. Arg.	PE	tree	zoo
	<i>Croton floribundus</i> Spreng.	PE	tree	au
	<i>Manihot utilissima</i> Pohl	-	shrub	-
	<i>Ricinus communis</i> L.	-	tree	-
	<i>Sapium glandulatum</i> (Vell.) Pax	PE	tree	zoo
	<i>Sebastiania commersoniana</i> (Baill.) L.B. Sm. & Downs	PE	tree	au
	<i>Sebastiania klotzschiana</i> (Müll. Arg.) Müll. Arg.	PE	tree	zoo
Fabaceae	<i>Anadenanthera macrocarpa</i> (Benth.) Brenan	PE	tree	au
	<i>Acacia plumosa</i> Lowe	PE	tree	ane
	<i>Acacia polyphylla</i> DC.	PE	tree	ane
	<i>Albizia niopoides</i> (Spruce ex Benth.) Burkart	PE	tree	ane
Fabaceae	<i>Bauhinia forficata</i> Link	PE	tree	au
	<i>Bauhinia</i> sp.	-	liana	-
	<i>Cassia bicapsularis</i> L.	PE	tree	ane
	<i>Holocalyx balansae</i> Micheli	LC	tree	zoo
	<i>Inga vera</i> Willd.	PE	tree	zoo
Fabaceae	<i>Leucaena leucocephala</i> (Lam.) de Wit	-	tree	-
	<i>Lonchocarpus guillemineanus</i> (Tul.) Malme	PE	tree	ane
	<i>Lonchocarpus muehlbergianus</i> Hassl.	PE	tree	ane
	<i>Machaerium paraguariense</i> Hassl.	PE	tree	ane
	<i>Machaerium stipitatum</i> (DC.) Vogel	PE	tree	ane
	<i>Myrocarpus frondosus</i> Allemão	LC	tree	ane
	<i>Parapiptadenia rigida</i> (Benth.) Brenan	PE	tree	ane
	<i>Peltophorum dubium</i> (Spreng.) Taub.	PE	tree	ane
	<i>Piptadenia gonoacantha</i> (Mart.) J.F. Macbr.	PE	tree	ane
	<i>Pterogyne nitens</i> Tul.	PE	tree	ane
	<i>Senna macranthera</i> (DC. ex Collad.) H.S. Irwin & Barneby	PE	tree	ane

Continues.

Table 1. Continuation.

Family	Species name	SG	Habit	Dispersal
Flacourtiaceae	<i>Casearia sylvestris</i> Sw.	PE	tree	zoo
	<i>Casearia ulmifolia</i> Vahl ex Vent.	PE	tree	zoo
	<i>Prockia crucis</i> P. Browne ex L.	LC	tree	zoo
Hippocrateaceae	<i>Pristimera andina</i> Miers	-	shrub	-
Lauraceae	<i>Endlicheria paniculata</i> (Spreng.) J.F. Macbr.	LC	tree	zoo
	<i>Nectandra megapotamica</i> (Spreng.) Mez	LC	tree	zoo
	<i>Ocotea diospyrifolia</i> (Meisn.) Mez	LC	tree	zoo
	<i>Ocotea puberula</i> (Rich.) Hees	LC	tree	zoo
	<i>Persea americana</i> Mill.	LC	tree	zoo
Liliaceae	<i>Dracaena marginata</i> hort.	-	shrub	-
Loganiaceae	<i>Strychnos brasiliensis</i> (Spreng.) Mart.	PE	tree	zoo
Malpighiaceae	<i>Dicella nucifera</i> Chodat.	-	liana	-
	Malpighiaceae 1	-	liana	-
	Malpighiaceae 2	-	liana	-
	<i>Mascagnia divaricata</i> (Kunth) Nied.	-	liana	-
	<i>Tetrapteryx multiglandulosa</i> A. Juss.	-	liana	-
Malvaceae	<i>Abutilon ramiflorum</i> A. St.-Hill.	-	shrub	-
	<i>Bastardiopsis densiflora</i> (Hook. & Arn.) Hassl.	PE	tree	au
	<i>Pavonia sepium</i> A. St.-Hil.	-	shrub	-
	<i>Sida potentilloides</i> A. St.-Hil.	-	shrub	-
Meliaceae	<i>Cabrlea canjerana</i> (Vell.) Mart.	LC	tree	zoo
	<i>Cedrela fissilis</i> Vell.	PE	tree	ane
	<i>Guarea kunthiana</i> A. Juss.	LC	tree	zoo
	<i>Melia azedarach</i> L.	-	tree	-
	<i>Trichilia casaretti</i> C. DC.	LC	tree	zoo
Meliaceae	<i>Trichilia elegans</i> A. Juss.	LC	tree	zoo
	<i>Trichilia pallida</i> Sw.	LC	tree	zoo
Moraceae	<i>Ficus guaranitica</i> Chodat	PE	tree	zoo
	<i>Maclura tinctoria</i> (L.) D. Don ex Steud.	PE	tree	zoo
	<i>Morus nigra</i> L.	-	tree	-
Myrsinaceae	<i>Myrsine umbellata</i> Mart.	PE	tree	zoo
Myrsinaceae	<i>Rapanea ferruginea</i> (Ruiz & Pav.) Mez.	PE	tree	zoo
Myrtaceae	<i>Calyptanthes grandifolia</i> O. Berg.	LC	tree	zoo
	<i>Campomanesia guazumifolia</i> (Cambess) O. Berg	LC	tree	zoo
	<i>Campomanesia xanthocarpa</i> (Mart.) O. Berg	LC	tree	zoo
	<i>Eucalyptus</i> sp.	-	tree	-
	<i>Eugenia bacopari</i> D. Legrand	LC	tree	zoo
	<i>Eugenia hyemalis</i> Cambess.	LC	tree	zoo
	<i>Eugenia involucrata</i> DC.	LC	tree	zoo
	<i>Eugenia uniflora</i> L.	LC	tree	zoo
	<i>Myrciaria trunciflora</i> O. Berg	LC	tree	zoo
	<i>Psidium guajava</i> L.	-	tree	-
	<i>Syzygium cumini</i> (L.) Skeels	-	tree	-

Continues.

Plant diversity in hedgerows amidst Atlantic Forest fragments

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Family	Species name	SG	Habit	Dispersal
Nyctaginaceae	<i>Bougainvillea spectabilis</i> Willd.	PE	tree	ane
	<i>Guapira graciliflora</i> (Schmidt) Lundell	LC	tree	zoo
	<i>Guapira opposita</i> (Vell.) Reitz	LC	tree	zoo
	<i>Pisonia aculeata</i> L.	PE	tree	zoo
Oleaceae	<i>Ligustrum lucidum</i> W.T. Aiton	-	tree	-
Passifloraceae	<i>Passiflora alata</i> Curtis	-	liana	-
	<i>Passiflora capsularis</i> L.	-	liana	-
Phytolaccaceae	<i>Gallesia integrifolia</i> (Spreng.) Harms	PE	tree	ane
Pinaceae	<i>Pinus elliotti</i> Engelm.	-	tree	-
Piperaceae	<i>Piper aduncum</i> L.	-	shrub	-
	<i>Piper amalago</i> L.	-	shrub	-
	<i>Piper glabratum</i> Kunth	-	shrub	-
	<i>Piper hispidum</i> Sw.	-	shrub	-
Polygonaceae	<i>Ruprechtia apetala</i> Wedd.	PE	tree	ane
	<i>Ruprechtia laxiflora</i> Meisn.	PE	tree	ane
Proteaceae	<i>Grevillea robusta</i> A. Cunn. ex R. Br.	-	tree	-
Rhamnaceae	<i>Gouania virgata</i> Reissek	-	liana	-
	<i>Hovenia dulcis</i> Thunb.	-	tree	-
Rosaceae	<i>Eriobotrya japonica</i> (Thunb.) Lindl.	-	tree	-
	<i>Potentilla indica</i> (Andrews) Th. Wolf	-	shrub	-
	<i>Prunus persica</i> (L.) Batsch	-	tree	-
	<i>Prunus sellowi</i> Koehne	PE	tree	zoo
Rubiaceae	<i>Coffea arabica</i> L.	-	tree	-
	<i>Palicourea marcgravii</i> A. St.-Hil.			
Rubiaceae	<i>Randia nitida</i> (Kunth) DC.	PE	tree	zoo
Rutaceae	<i>Balfourodendron riedelianum</i> (Engl.) Engl.	LC	tree	ane
	<i>Citrus limonia</i> (L.) Osbeck	-	tree	-
	<i>Citrus limettioides</i> Tanaka	-	tree	-
	<i>Citrus reticulata</i> Blanco	-	tree	-
	<i>Citrus sinensis</i> (L.) Osbeck	-	tree	-
	<i>Murraya paniculata</i> (L.) Jack	-	tree	-
Rutaceae	<i>Zanthoxylum caribaeum</i> Lam.	PE	tree	zoo
	<i>Zanthoxylum petiolare</i> A. St.-Hil. & Tul.	PE	tree	zoo
	<i>Zanthoxylum rhoifolium</i> Lam.	PE	tree	zoo
Sapindaceae	<i>Allophylus edulis</i> (A. St.-Hil., Cambess. & A. Juss.) Radlk.			
	<i>Cupania vernalis</i> Cambess.	PE	tree	zoo
	<i>Matayba elaeagnoides</i> Radlk.	PE	tree	zoo
	<i>Paullinia elegans</i> Cambess.	-	liana	-
	<i>Paullinia meliifolia</i> Juss.	-	liana	-
	<i>Serjania glabrata</i> Kunth	-	liana	-
	<i>Thinouia mucronata</i> Radlk.	-	liana	-
	<i>Urvillea ulmacea</i> Kunth	-	liana	-
Sapotaceae	<i>Chrysophyllum gonocarpum</i> (Mart. & Eichler ex Miq.) Engl.	LC	tree	zoo

Continues.

Table 1. Continuation.

Family	Species name	SG	Habit	Dispersal
Simaroubaceae	<i>Castela tweediei</i> Planch.	-	shrub	-
Smilacaceae	<i>Smilax</i> sp.	-	liana	-
Solanaceae	<i>Capsicum baccatum</i> L.	-	shrub	-
	<i>Cestrum intermedium</i> Sendtn.	PE	tree	zoo
	<i>Cestrum strigilatum</i> Ruiz & Pav.	-	shrub	-
	<i>Solanum americanum</i> Mill.	-	shrub	-
	<i>Solanum argenteum</i> Dunal	-	shrub	-
	<i>Solanum granuloso-leprosum</i> Dunal	PE	tree	zoo
	<i>Vassobia breviflora</i> (Sendtn.) Hunz.	-	shrub	-
Tiliaceae	<i>Heliocarpus americanus</i> L.	PE	tree	ane
	<i>Luehea divaricata</i> Mart.	PE	tree	ane
Ulmaceae	<i>Celtis iguanaea</i> (Jacq.) Sarg.	PE	tree	zoo
	<i>Trema micrantha</i> (L.) Blume	PE	tree	zoo
Urticaceae	<i>Urera baccifera</i> (L.) Gaudich. ex Wedd.	-	shrub	-
Verbenaceae	<i>Aloysia virgata</i> (Ruiz & Pav.) Pers.	PE	tree	ane
	<i>Aegiphila sellowiana</i> Cham.	PE	tree	zoo
	<i>Citharexylum myrianthum</i> Cham.	LC	tree	zoo
	<i>Petrea subserrata</i> Cham.	-	liana	-
Violaceae	<i>Hybanthus bigibbosus</i> (A. St.-Hill.) Hassl.	LC	tree	au
-	Undetermined 1	-	shrub	-
-	Undetermined 2	-	shrub	-
-	Undetermined 3	-	shrub	-
-	Undetermined 4	-	shrub	-
-	Undetermined 5	-	shrub	-
-	Undetermined 6	-	shrub	-