

Supplementary material

Table S1. Environmental variables for each sampled riparian belt used in the CCA analysis. Land cover values in ha correspond to cover within 500 m of the centroid (see Methods) of the respective riparian belt (see abbreviations in Table 2). Elevation above sea level, distance to nearest town and to the **TL** site (see Methods) are given for the centroid of each sampling site. Canopy cover is the average percent value derived from 12 points within each riparian belt using the canopy densiometer (see Methods).

Site	Forest (ha)	Urban (ha)	Agriculture (ha)	Elevation (m)	Dist. nearest town (km)	Canopy cover (%)	Dist. to TL (km)
AC	10.88	0.63	8.10	1,408	0.58	79.59	18.1
AB	15.87	0.41	3.33	1,538	1.73	83.40	18.6
AF	19.16	0.13	0.32	1,463	0.70	89.08	18.0
TR	18.44	0.18	1.00	1,267	2.40	86.83	12.4
GR	18.81	0.10	0.71	1,344	2.44	83.45	12.1
MA	13.71	1.56	4.34	1,194	0.47	75.64	12.8
ME	18.33	0.03	1.25	1,356	0.49	88.99	18.4
MG	8.77	0.42	10.42	1,682	0.35	75.11	2.2
PD	9.40	0.37	9.85	1,506	0.95	72.05	1.6
RM	6.14	0.75	12.73	1,389	0.12	72.54	4.2
TL	8.54	0.05	11.03	1,611	0.53	78.03	0
TF	14.94	0.52	4.15	1,441	0.82	87.65	17.7
TM	17.83	0.10	1.69	1,680	0.81	85.52	15.0
VH	11.5	0.34	7.73	1,780	1.33	74.54	1.9

Table S2. Taxonomy of species plants recorded in 14 forested riparian belts sampled in central Veracruz State, Mexico. **Life form** (h= herb, Fe = Fern, P = Palm, Sr = Shrub, E = Epiphyte, T = Tree). **Dispersal mode** (W = Wind, A = Animal, Gr = Gravity, Ex = Explosion, U = Unknown). **Conservation status** (VU = Vulnerable, T = Threatened NT = Near Threatened, LC = Least concern, CR = Critically Endangered, EN = Endangered).

Species	Spp. data
POLYPODIOPSIDA	
Athyriaceae	
<i>Diplazium</i> sp.	Fe-W
Cyatheaceae	
<i>Alsophila firma</i> (Baker) D.S. Conant	Fe-W-EN
<i>Cyathea microdonta</i> (Desv.) Domin	Fe-W
Dennstaedtiaceae	
<i>Dennstaedtia</i> sp.	Fe-W
Dicksoniaceae	
<i>Lophosoria quadripinnata</i> (J.F. Gmel.) C. Chr.	Fe-W
Dryopteridaceae	
<i>Polystichum hartwegii</i> (Klotzsch) Hieron.	Fe-W
Pteridaceae	
<i>Pteris muricata</i> Hook.	Fe-W
MONOCOTILEDONEAS	
Arecaceae	
<i>Chamaedorea schiedeana</i> Mart.	P-W-T
Heliconiaceae	
<i>Heliconia schiedeana</i> Klotzsch	h-A
DICOTILEDONEAS	
Acanthaceae	
<i>Odontonema callistachyum</i> (Schltdl. & Cham.) Kuntze	Sr-Ex
<i>Stenostephanus haematodes</i> (Schltdl.) T.F. Daniel	H-W
Actinidiaceae	
<i>Saurauia leucocarpa</i> Schltdl.	T-A-VU
<i>Saurauia pedunculata</i> Hook.	T-A-VU
<i>Saurauia</i> sp.1	T-A
Adoxaceae	
<i>Sambucus nigra</i> L.	T-A.LC
Altingiaceae	
<i>Liquidambar styraciflua</i> L.	T-W-LC
Annonaceae	
<i>Annona cherimola</i> Mill.	T-A
Aquifoliaceae	
<i>Ilex toluhana</i> Hemsl.	T-A

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Species	Spp. data
Araliaceae	
<i>Oreopanax capitatus</i> (Jacq.) Decne. & Planch.	E-A-NT
<i>Oreopanax echinops</i> (Schltdl. & Cham.) Decne. & Planch.	T-A-VU
<i>Oreopanax liebmannii</i> Marchal	E-A-VU
<i>Oreopanax xalapensis</i> (Kunth) Decne. & Planch.	T-A-NT
Asteraceae	
Asteraceae (Gen. no det.) sp.1	h-W
Asteraceae (Gen. no det.) sp.2	h-W
Asteraceae (Gen. no det.) sp.4	h-W
Asteraceae (Gen. no det.) sp.5	h-W
Asteraceae (Gen. no det.) sp.6	h-W
Asteraceae (Gen. no det.) sp.7	h-W
Asteraceae (Gen. no det.) sp.8	h-W
<i>Baccharis conferta</i> Kunth	Sr-W
<i>Ageratina espinosarum</i> var. <i>subintegrifolia</i> (B.L. Rob.) B.L. Turner	T-W
<i>Odontotrichum goldsmithii</i> (B.L. Rob.) Rydb.	H-W
<i>Rumfordia guatemalensis</i> (J.M. Coult.) S.F. Blake	H-W
<i>Roldana angulifolia</i> (DC.) H. Rob. & Brettell	T-W
<i>Telanthophora grandifolia</i> (Less.) H. Rob. & Brettell	Sr-W
<i>Telanthophora</i> sp.	Sr-W
<i>Verbesina greenmanii</i> Urb.	Sr-W
<i>Verbesina turbacensis</i> Kunth	Sr-W
<i>Vernonanthura patens</i> (Kunth) H. Rob.	T-U-LC
<i>Vernonia</i> sp.	Sr-W
Betulaceae	
<i>Alnus acuminata</i> Kunth	T-W-LC
<i>Carpinus caroliniana</i> var. <i>tropicalis</i> (Donn. Sm.) Standl.	T-A-NT
Boraginaceae	
<i>Tournefortia glabra</i> L.	Sr-A-LC
Brunelliaceae	
<i>Brunellia mexicana</i> Standl.	T-Gr-LC
Cannabaceae	
<i>Trema micrantha</i> (L.) Blume	T-A-LC
<i>Lozanella enantiophylla</i> (Donn. Sm.) Killip & C.V. Morton	Sr-U-NT
Celastraceae	
<i>Zinowiewia integerrima</i> (Turcz.) Turcz.	T-W
Chloranthaceae	
<i>Hedyosmum mexicanum</i> C. Cordem.	T-A-LC
Clethraceae	

Species	Spp. data
<i>Clethra</i> aff. <i>vicentina</i> Standl.	T-A-LC
<i>Clethra</i> aff. <i>costaricensis</i> Britton	T-W-LC
<i>Clethra macrophylla</i> M. Martens & Galeotti	T-A-LC
<i>Clethra schlechtendalii</i> Briq.	T-A-LC
<i>Clethra</i> sp.1	T-A
<i>Clethra</i> sp.2	T-A
Clusiaceae	
<i>Clusia</i> sp.	E-A
Dipentodontaceae	
<i>Perrottetia longistylis</i> Rose	T-A-LC
<i>Perrottetia ovata</i> Hemsl.	T-A-LC
Ericaceae	
<i>Gaultheria erecta</i> Vent.	Sr-A
Euphorbiaceae	
<i>Acalypha schiedeana</i> Schltdl.	h-GR
<i>Alchornea latifolia</i> Sw.	T-A-LC
<i>Bernardia dodecandra</i> (Sessé ex Cav.) McVaugh	T-Gr-VU
<i>Cnidoscolus multilobus</i> (Pax) I. M. Johnst.	T-A-LC
<i>Gymnanthes longipes</i> Müll. Arg.	T-Ex-VU
Fabaceae	
<i>Cojoba arborea</i> (L.) Britton & Rose	T-A-NT
<i>Erythrina breviflora</i> DC.	T-A
<i>Inga</i> aff. <i>paterno</i> Harms	T-A
<i>Inga inicuil</i> Schltdl. & Cham. Ex G. Don	T-A-LC
<i>Lonchocarpus</i> aff. <i>orizabensis</i> Lundell	T-W
<i>Lonchocarpus</i> sp.	T-W
<i>Lysiloma microphyllum</i> Benth.	T-W
<i>Senna septemtrionalis</i> (Viv.) H.S. Irwin & Barneby	Sr-Gr
<i>Zapoteca portoricensis</i> (Jacq.) H.M. Hern.	Sr-Ex-LC
Fagaceae	
<i>Quercus corrugata</i> Hook.	T-A-EN
<i>Quercus lancifolia</i> Schltdl. & Cham.	T-A-NT
<i>Quercus paxtalensis</i> C.H. Müll.	T-A-CR
<i>Quercus pinnativenulosa</i> C.H. Müll.	T-A-CR
<i>Quercus sapotifolia</i> Liebm.	T-A-VU
Gesneriaceae	
<i>Moussonia deppeana</i> (Schltdl. & Cham.) Klotzsch ex Hanst.	Sr-A
<i>Solenophora insignis</i> (M. Martens & Galeotti) Hanst.	h-W
Gunneraceae	

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Species	Spp. data
<i>Gunnera mexicana</i> Brandegee	h-A
Lamiaceae	
<i>Salvia mexicana</i> L.	h-Gr
<i>Salvia</i> sp.	h-Gr
Lauraceae	
<i>Aiouea effusa</i> (Meisn.) R. Rohde & Rohwer	T-A-EN
<i>Ocotea psychotrioides</i> Kunth.	T-A
<i>Persea americana</i> Mill	T-A-EN
Malpighiaceae	
<i>Bunchosia lindeniana</i> A. Juss.	T-A-LC
Malvaceae	
<i>Hampea integerrima</i> Schltdl.	Sr-A-NT
<i>Heliocarpus appendiculatus</i> Turcz.	T-W-LC
<i>Malvaviscus arboreus</i> Cav.	Sr-A-LC
<i>Triumfetta</i> sp.	Sr-A
Melastomataceae	
<i>Conostegia arborea</i> Steud.	Sr-A-EN
<i>Conostegia icosandra</i> (Sw. ex Wikstr.) Urb.	Sr-A
<i>Conostegia xalapensis</i> (Bonpl.) D. Don ex DC.	Sr-A-LC
<i>Leandra subseriata</i> (Naudin) Cogn.	Sr-A
<i>Miconia glaberrima</i> (Schltdl.) Naudin	Sr-A-LC
<i>Miconia minutiflora</i> (Bonpl.) DC.	Sr-A-LC
<i>Miconia oligotricha</i> (DC.) Naudin	Sr-A-NT
<i>Miconia sylvatica</i> (Schltdl.) Naudin	Sr-A
Meliaceae	
<i>Guarea</i> sp.	T-A
<i>Trichilia havanensis</i> Jacq.	T-A-LC
Siparunaceae	
<i>Siparuna thecaphora</i> (Poepp. & Endl.) A. DC.	Sr-A
Myrtaceae	
<i>Eugenia</i> sp.	T-A
Papaveraceae	
<i>Bocconia frutescens</i> L.	T-A
Piperaceae	
<i>Piper aduncum</i> L.	Sr-A
<i>Piper auritum</i> Kunth	Sr-A-LC
<i>Piper disjunctum</i> C. DC.	Sr-A
<i>Piper hispidum</i> Sw.	Sr-A
<i>Piper lapathifolium</i> (Kunth) Steud.	Sr-A

Species	Spp. data
<i>Piper sanctum</i> (Miq.) Schltdl. ex C. DC.	Sr-A
<i>Piper schiedeana</i> Steud.	Sr-A
<i>Piper</i> sp.	Sr-A
Platanaceae	
<i>Platanus mexicana</i> Moric.	T-W-NT
Primulaceae	
<i>Parathesis melanosticta</i> (Schltdl.) Hemsl.	T-A-VU
<i>Ardisia compressa</i> Kunth	T-A-LC
<i>Ardisia liebmannii</i> subsp. <i>jalapensis</i> (Lundell) Ricketson & Pipoly	T-A-VU
<i>Myrsine coriacea</i> (Sw.) R. Br. ex Roem. & Schult.	T-A-LC
Rhamnaceae	
<i>Colubrina celtidifolia</i> (Schltdl. & Cham.) Schltdl.	T
<i>Frangula discolor</i> (Donn. Sm.) Grubov	T-A-LC
<i>Rhamnus longistyla</i> C.B. Wolf	T-A-VU
Rosaceae	
<i>Prunus</i> aff. <i>brachybotrya</i> Zucc.	T-A
<i>Prunus tetradenia</i> Koehne	T-A
Rubiaceae	
<i>Arachnothryx bourgaei</i> (Standl.) Borhidi	Sr-A-VU
<i>Arachnothryx capitellata</i> (Hemsl.) Borhidi	Sr-A-EN
<i>Deppea grandiflora</i> Schltdl.	Sr-A-VU
<i>Hoffmannia excelsa</i> (Kunth) K. Schum.	Sr-A
<i>Hoffmannia orizabensis</i> Standl	Sr-A
<i>Hoffmannia psychotriifolia</i> (Benth.) Griseb.	Sr-A
<i>Hoffmannia</i> sp.	Sr-A
<i>Palicourea padifolia</i> (Willd. ex Schult.) C.M. Taylor & Lorence	Sr-A-LC
<i>Psychotria nervosa</i> Sw.	Sr-A
<i>Psychotria trichotoma</i> M. Martens & Galeotti	Sr-A-LC
Rutaceae	
<i>Zanthoxylum</i> aff. <i>melanostictum</i> Schltdl. & Cham.	Sr-A
Sabiaceae	
<i>Meliosma alba</i> (Schltdl.) Walp.	T-A-EN
Salicaceae	
<i>Xylosma flexuosa</i> (Kunth) Hemsl.	Sr-A-LC
<i>Xylosma panamensis</i> Turcz.	Sr-A
Solanaceae	
<i>Brugmansia suaveolens</i> (Humb. & Bonpl. ex Willd.) Sweet	Sr-U
<i>Cestrum dumetorum</i> Schltdl.	T-A
<i>Cestrum fasciculatum</i> (Schltdl.) Miers	Sr-A

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Species	Spp. data
<i>Cestrum miradorense</i> Francey	T-A
<i>Cestrum nocturnum</i> L.	Sr-A-LC
<i>Solanum aphyodendron</i> S. Knapp	Sr-A-LC
<i>Solanum chrysotrichum</i> Schlttdl.	Sr-A-LC
<i>Solanum erianthum</i> D. Don	Sr-A
<i>Solanum nigricans</i> M. Martens & Galeotti	Sr-A-LC
<i>Solanum schlechtendalianum</i> Walp.	Sr-A-LC
<i>Solanum umbellatum</i> Mill.	Sr-A
<i>Solanum</i> spp. (2 spp.)	Sr-A
Staphyleaceae	
<i>Turpinia insignis</i> (Kunth) Tul.	Sr-A-EN
Styracaceae	
<i>Styrax glabrescens</i> Benth.	T-A-VU
Urticaceae	
<i>Boehmeria caudata</i> Sw.	Sr-Gr-LC
<i>Myriocarpa longipes</i> Liebm.	Sr-Gr-LC
Urticaceae (Gen. no det.) sp.	h-A
Verbenaceae	
<i>Citharexylum</i> cf. <i>mexicanum</i> Moldenke	T-A
<i>Citharexylum mocinnoi</i> D. Don	T-A-LC
<i>Duranta repens</i> L.	h-Gr
<i>Lantana camara</i> L.	Sr-A
<i>Lantana hirta</i> Graham	Sr-A
<i>Lantana</i> sp.	Sr-A
Viburnaceae	
<i>Viburnum tiliifolium</i> (Oerst.) Hemsl.	T-A-VU
Violaceae	
<i>Hybanthus elatus</i> (Turcz.) C. V. Morton	Sr-Ex

Life form (or growth form), seed dispersal mode and conservation status are based on: [Alcántara-Ayala & Luna-Vega \(2001\)](#); [Gentry \(1982\)](#), [González-Espinosa *et al.* \(2011\)](#), [Nadkarni & Wheelwright \(2000\)](#), [SEMARNAT \(2010\)](#).

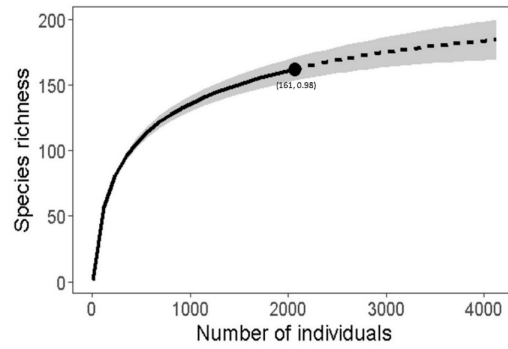


Figure S1. Individual-based species accumulation curve for woody plants in 14 forested riparian belts sampled in the upper-basin of La Antigua River, in central Veracruz State, Mexico. A total of 2,062 plants of 161 species were recorded reaching sample coverage (SC) of 0.98.

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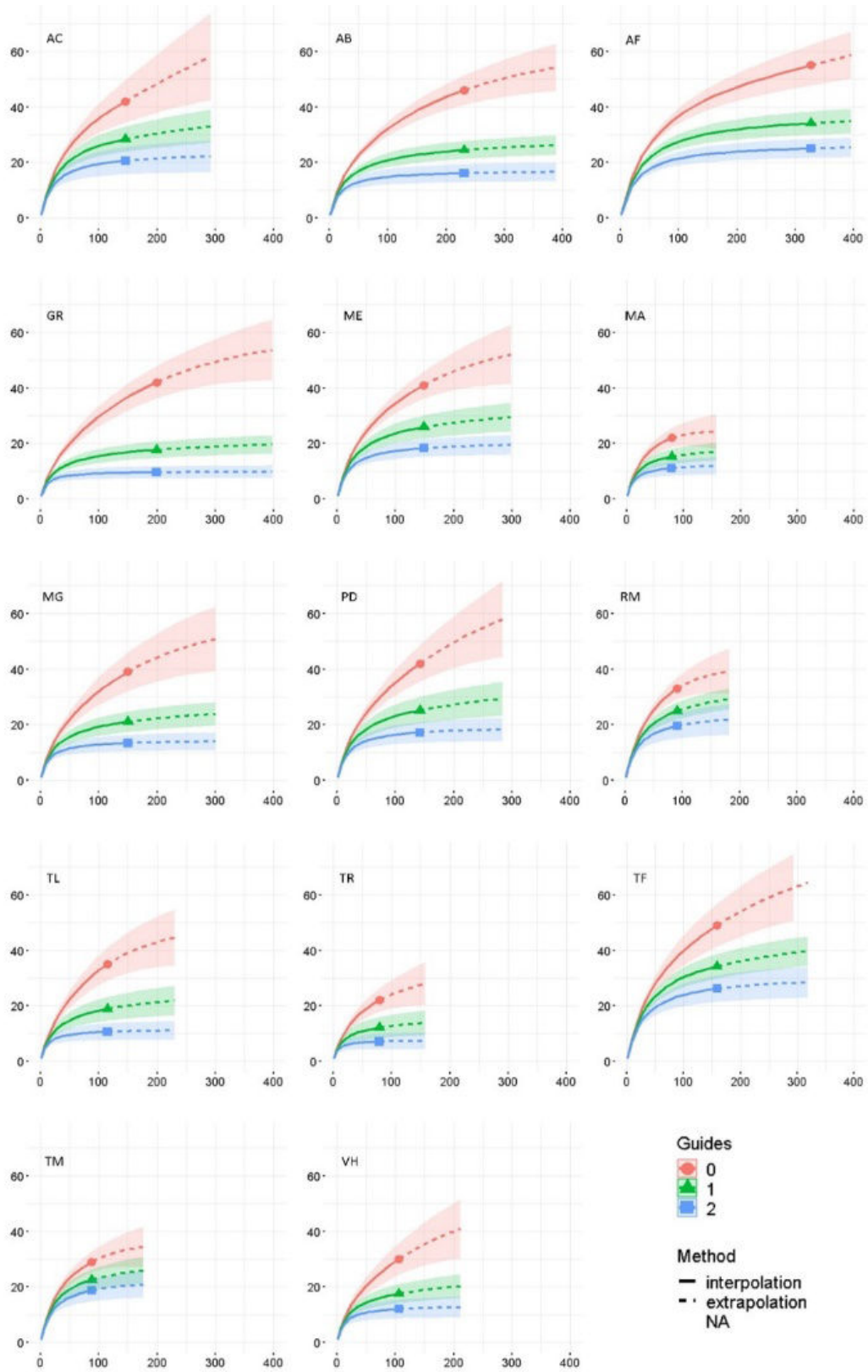


Figure S2. Individual-based diversity profiles (Hill numbers; q_0 = observed richness; q_1 = Shannon diversity; q_2 = Simpson diversity) for each forested riparian belt sampled.