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**Flora and dynamics of an upland and a floodplain forest in Peña Roja, Colombian Amazonia = Flora y dinámica de bosques de tierra firme y de várzea en Peña Roja, Amazonia colombiana**

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# Appendices

## Appendix 1

This appendix contains the descriptions and laboratory analyses of soil profiles 125 and 126 taken from Duivenvoorden and Lips (1995). Methods of analyses and sampling procedures are described in Duivenvoorden and Lips (1995). Mapping units refer to the legend of the landscape ecological map of the Middle Caquetá Basin (Duivenvoorden and Lips 1993).

### *Profile number: 125*

Mapping unit: Sv

Soil classification: clayey, kaolinitic, isohyperthermic typic Kandiodult (SSS 1992), xanthic Ferralsol (FAO 1988)

Date of examination: February 19 and October 25 1990

Authors: J.M. Lips & J.F. Duivenvoorden

Location: 875 m from the left bank of the Caquetá River in front of the Island Sumaeta, Amazonas, Colombia (0°39'S, 72°05'W)

Elevation: approx. 200 m a.s.l.

Landform: sedimentary Tertiary plain; physiographic position: shoulder straight slope; surrounding topography: steeply dissected; microtopography: none

Slope: sloping (6°); exposition: 222° (SW)

Vegetation: high forest of high biomass, of the *Swarzia schomburgkii-Clathrotropis macrocarpa* community

Climate: Afi (3060 mm/year, 25.7°C)

### *General information on the soil*

Parent material: Tertiary fluvial deposits, with a cover of Pleistocene? fluvial deposits

Drainage class: well drained (4)

Moisture conditions in profile: moist throughout

Depth of groundwater: not encountered

Presence of surface stones and rock outcrops: none

Evidence of erosion: none

Human influence: none

### *Description of the individual soil horizons*

- L 9.78-8.00 cm. 90% leaf, 10% branch; cover 75%; loose to non compact matted structure; loose consistency; leafy character; abrupt broken boundary to:
- F 8.00-3.95 cm. 38% leaf, 2% branch, 50% root, 10% fine material; reddish to dark brown (5-7.5YR4/4) dry; irregular structure; resilient consistency; fibrous character; abundant roots  $\leq 5$  mm, common roots 6-10 mm; very few roots  $> 10$  mm, random orientation; gradual wavy to irregular boundary to:
- H 3.95-0 cm. 5% leaf, 42% fine material, 53% root; reddish to dark brown (5-7.5YR4/4) dry; granular structure; friable consistency; greasy character; abundant roots  $\leq 5$  mm, common roots 6-10 mm; few roots  $> 10$  mm, random orientation; gradual wavy to irregular boundary to:

- A 0-8 cm. Brown (7.5YR4/4) moist loam; weak medium granular; very friable moist, slightly sticky and slightly plastic wet; common very fine and fine, frequent medium and coarse roots; clear wavy boundary to:
- AB 8-30 cm. Brown (10-7.5YR4/6) moist clayloam; moderate medium subangular blocky; very friable moist, slightly sticky and slightly plastic wet; common very fine, fine, medium and coarse roots; common faunal activity (channels filled with A material); common charcoal fragments; gradual smooth boundary to:
- Bt11 30-70 cm. Bright brown (7.5YR5/6) moist clay; moderate medium and coarse subangular blocky; friable moist, slightly sticky and slightly plastic wet; few very fine, fine and medium, very few coarse roots; few faunal activity; diffuse smooth boundary to:
- Bt12 70-160+ cm. Bright brown (7.5YR5/7) moist clay; moderate medium and coarse subangular blocky; friable moist, slightly sticky and slightly plastic wet; few very fine, fine and medium, very few coarse roots

Remarks: many coarse angular quartz sand particles present throughout the profile; data part of Bt12 derived from augering; H horizon discontinuous

*Analyses profile 125*

horizon	depth cm	texture			pH (1:1)		C %	bulk density g/ml	P avail. mg/kg
		sand	silt	clay	H <sub>2</sub> O	KCl			
A	0-8	72	10	18	3.7	-	1.97	0.8	1
AB	8-30	46	14	40	4.2	-	0.42	1.2	1
Bt11	30-70	42	8	50	4.6	-	0.13	1.3	1
Bt12 (80-100)	70-160+	42	10	48	4.7	-	-	1.3	1
Bt12 (130-160)	70-160+	42	10	48	4.9	-	-	-	1

horizon	exchange properties										
	Ca	Mg	K	Na	acidity	bases	CEC7	ECEC	CECc	ECECc	BS
	cmol(+)/kg soil								cmol(+)/kg clay		%
A	0.2	0.2	0.2	0.3	2.0	0.9	15.3	2.9	10.3	3.4	6
AB	0.2	0.2	0.04	0.1	1.7	0.5	8.5	2.2	14.1	4.4	6
Bt11	0.2	0.2	0.1	0.3	1.1	0.8	6.0	1.9	10.2	3.5	13
Bt12	0.2	0.2	0.03	0.1	1.0	0.5	4.8	1.5	9.4	3.1	11
Bt12	0.2	0.2	0.04	0.1	0.9	0.5	4.4	1.4	8.9	3.0	12

horizon	necromass mean±sd g/m <sup>2</sup>	totals											LOI %
		HF-H <sub>2</sub> SO <sub>4</sub> digestion					HNO <sub>3</sub> -H <sub>2</sub> O <sub>2</sub> digestion						
		Ca	Mg	K	Na	P	Ca	Mg	K	Na	P	N	
							mg/kg						
L	200±0	-	-	-	-	-	934	617	833	22	145	15664	98
F	2160±0	134	184	488	87	269	112	127	392	68	166	14977	67
H	1170±0	79	162	243	98	199	39	82	150	42	124	11299	46

*Profile number: 126*

Mapping unit: Ec

Higher category classification: fine loamy, mixed, isohyperthermic oxyaquic

Dystropept (SSS 1992), dystric Cambisol (FAO 1988)

Date of examination: February 20 and October 24 1990

Authors: J.M. Lips & J.F. Duivenvoorden

Location: 100 m from the right bank of the Caquetá River, 2.25 km up stream of the Island Sumaeta, Amazonas, Colombia (0°37'S, 72°07'W)

Elevation: approx. 155 m a.s.l.

Landform: rarely inundated flood plain of the Caquetá River; physiographic position: concave part; surrounding topography: almost flat; microtopography: shallow depressions

Slope: flat (0°); exposition: none

Vegetation: high forest of intermediate biomass of the *Brownea grandiceps-Iriartea ventricosa* community

Climate: Afi (3060 mm/year, 25.7°C)

#### *General information on the soil*

Parent material: Holocene alluvial deposits of the Caquetá River

Drainage class: imperfectly to moderately well drained (2-3)

Moisture conditions in profile: moist throughout

Depth of groundwater: not encountered

Presence of surface stones and rock outcrops: none

Evidence of erosion: none

Human influence: none

#### *Description of the individual soil horizons*

- L 4.45-2.20 cm. 90% leaf, 10% branch < 2% fruit; cover 60%; single particle structure; loose consistency; leafy character; abrupt broken boundary to:
- F 2.20-0 cm. 80% leaf, 10% branch, 10% root, < 2% fruit; brown (10-7.5YR4/4) dry; single particle to compact matted structure; loose consistency; leafy character; common roots ≤ 5 mm, no roots 6-10 mm; no roots > 10 mm, random orientation; common faunal activity (worm droppings); clear irregular boundary to:
- Ah 0-2 cm. Brown (10YR4/4) moist silty loam; moderate fine and medium crumb; very friable moist, slightly sticky and slightly plastic wet; common very fine, fine, medium and coarse roots; common faunal activity; clear wavy boundary to:
- AB 2-22 cm. Yellowish brown (10YR5/6) moist silty clay loam; moderate medium subangular blocky; very friable moist, slightly sticky and slightly plastic wet; common very fine and fine, few medium and coarse roots; common faunal activity; few charcoal fragments; gradual smooth boundary to:
- Bw1 22-45 cm. Yellowish brown (10YR5/6) moist silty clay; moderate medium subangular blocky; friable to firm moist, slightly sticky and plastic wet; very few very fine, fine, medium and coarse roots; gradual smooth boundary to:

- Bw2 45-75 cm. Yellowish brown (10YR5/6) moist silty clay loam, with common medium distinct diffuse bright brown (7.5YR5/6) and few medium distinct diffuse orange grey mottles; moderate medium and coarse subangular blocky; friable moist, slightly sticky and slightly plastic wet; very few small soft Fe/Mn nodules; very few very fine, fine, medium and coarse roots; gradual smooth boundary to:
- Bwg 75-155+ cm. Yellowish brown (10YR6/3) moist silty clay loam, with common medium distinct clear bright brown (7.5YR5/6) and yellowish brown (10YR5/6) mottles; moderate medium and coarse subangular blocky; friable moist, slightly sticky and slightly plastic wet; few small and large soft Fe/Mn nodules; very few very fine, fine, medium and coarse roots

Remarks: sand size mica fragments visible throughout the profile; data part of B22 derived from augering

*Analyses profile 126*

horizon	depth cm	texture			pH (1:1)		C %	bulk density g/ml	P avail. mg/kg
		sand	silt	clay	H <sub>2</sub> O	KCl			
Ah	0-2	24	46	30	3.9	-	3.26	0.5	4
AB	2-22	16	44	40	3.9	-	0.34	1.3	1
Bw1	22-45	12	38	50	4.2	-	0.20	1.4	1
Bw2	45-75	24	36	40	4.6	-	-	1.4	1
Bwg (80-95)	75-155+	26	40	34	4.7	-	-	1.4	1
Bwg (140-155)	75-155+	14	36	50	5.1	-	-	-	2

horizon	exchange properties										
	Ca	Mg	K	Na	acidity	bases	CEC7	ECEC	CECc	ECECc	BS
	cmol(+)/kg soil								cmol(+)/kg clay		%
Ah	3.2	3.6	0.4	0.2	2.8	7.4	23.8	10.2	34.1	18.0	31
AB	0.2	0.2	0.1	0.2	4.3	0.7	13.7	5.0	30.7	11.2	5
Bw1	0.2	0.2	0.1	0.2	6.5	0.7	14.1	7.2	26.5	13.8	5
Bw2	0.2	0.2	0.4	0.7	5.8	1.5	13.3	7.3	32.6	18.0	11
Bwg	0.2	0.2	0.01	0.01	6.1	0.4	16.2	6.5	47.2	19.0	3
Bwg	3.2	3.2	0.2	0.2	5.5	6.8	15.7	12.3	31.2	24.5	43

horizon	necromass mean±sd	totals										LOI %	
		HF-H <sub>2</sub> SO <sub>4</sub> digestion					HNO <sub>3</sub> -H <sub>2</sub> O <sub>2</sub> digestion						
	Ca	Mg	K	Na	P	Ca	Mg	K	Na	P	N		
	g/m <sup>2</sup>	mg/kg											
L	350±0	-	-	-	-	-	11496	2760	2569	42	424	18059	90
F	950±0	8120	2384	4627	683	724	7184	2097	1864	68	463	18541	69

## Appendix 2

Listado de plantas vasculares en parcelas permanentes en bosques del Plano Sedimentario Terciario (PST, tierra firme) y de la Llanura Aluvial con Inundación Esporádica del río Caquetá (LAI, várzea) en Peña Roja, Amazonia colombiana. Publicado en *Caldasia* 19(3) 431-463 (1997).

Se incluyen plantas vasculares con altura total mayor o igual que 50 cm. Para cada especie se indica: su nombre; su hábito de crecimiento (ver abajo); la localidad donde se encontró (L: Llanura Aluvial con inundación esporádica del río Caquetá; P: Plano Sedimentario Terciario); y una muestra botánica de referencia (colectores: EA: Esteban Álvarez; CL: Ana Catalina Londoño).

Formas de crecimiento: árboles (A), arbustos (T), escandentes herbáceos (SH), escandentes leñosos (SL), estranguladoras (SZL), helechos arbóreos (FA), helechos escandentes (FSH), helechos terrestres (FH), hemiepífitas herbáceas (SEH), hemiepífitas leñosas (SEL), hierbas terrestres (H), palmas arbóreas cespitosas (PAC), palmas arbóreas monoestipitadas (PAM), palmas arbustivas acaules (PTU), palmas arbustivas cespitosas (PTC), palmas arbustivas monoestipitadas (PTM), palmas escandentes (PSL).

En los bosques inventariados se identificaron las plantas hasta el nivel de especie taxonómica (Grant 1989); cuando esto no fue posible se emplearon morfoespecies en la denominación de los taxones. Para las familias de plantas superiores se siguió el sistema de Cronquist (1981), con excepción de Caesalpiniaceae, Fabaceae y Mimosaceae, que fueron agrupadas en Leguminosae en la presentación de resultados para facilitar la comparación con otros estudios. Cecropiaceae se presenta separada de Moraceae, Hippocrateaceae aparte de Celastraceae y Mendonciaceae segregada de Acanthaceae. Para las Pteridophyta se empleó la nomenclatura de familias de Mabberley (1990).

**ACANTHACEAE:** *Aphelandra aurantiaca* (Scheidweiler) Lindley.; H; L; CL 1578. *Justicia chlorostachya*; H; L; EA 258. *J. sp. 1*; H; P; EA 1046.

**ADIANTACEAE:** *Adiantum latifolium* Lam.; FH; L; EA 561.

**ANACARDIACEAE:** *Spondias* sp. 1; A; LAI; EA 756. *Tapirira guianensis* Aublet; A; L; EA 111. *T. retusa* Ducke; A; L; EA 406. *Thyrsodium* sp. 1; A; L; EA A230. *T.* sp. 2; A; P; CL 961.

**ANNONACEAE:** *Anaxagorea dolichocarpa* Sprague & Sandwith; A; L; EA 606. *A. rufa* Timmerman; A; P; CL 864. *Annona* aff. *dolichophylla* R. E. Fries; A; L; EA 741. *A. excellens* R. E. Fries; A; P; CL 1352. *A. hypoglauca* C. Martius; A; L; EA 810. *A.* sp. 2; A; L; EA 14. Annonaceae sp. 1; A; L; EA 585. *A.* sp. 2; A; P; EA 1049. Annonaceae? sp. 3; SL; L; EA 766. *Bocageopsis multiflora* (C. Martius) R. E. Fries; A; P; CL 1190. *Duguetia asterotricha* Diels; A; L; EA 228. *D. latifolia* R. E. Fries; A; L; EA 584. *D. odorata* (Diels) J. F. Macbride; A; L; P; CL 1600. *D.* sp. 1; A; L; P; EA 571. *D. spixiana* C. Martius; A; L; CL 1573. *Guatteria* aff. *acutissima* R. E. Fries; A; P; CL 344. *G.* aff. *ferruginea* A. St. Hilaire; A; P; CL 971. *G.* aff. *villosissima* A. St. Hilaire; A; L; EA 527. *G. atra* Sandwith; A; L; EA 465. *G.* cf. *amazonica* R. E. Fries; A; L; EA 9. *G. foliosa* Benth.; A; P; CL 1094. *G. guianensis* (Aublet) R. E. Fries; A; P; EA 1099. *G. megalophylla* Diels; A; L; P; EA-758. *G. punctulata* R. E. Fries; A; P; CL 1371. *G.* sp. 1; A; P; CL 474. *G.* sp. 2; A; P; CL 518. *G.* sp. 3; A; P; EA 828. *Guatteriella tomentosa* R. E. Fries; A; P; EA 1100. *Malmea dielsiana* Safford ex R. E. Fries; A; L; EA 630. *Oxandra euneura* Diels; A; L; P; CL 1637. *O. mediocris* Diels; A; L; EA 204. *O. polyantha* R. E. Fries; A; L; EA 710. *O.* sp. 1; A; P; CL 56. *O. xylopioides* Diels; A; L; EA 396. *Pseudoxandra* aff. *pacifica* P. Maas; A; L; EA 534. *Rollinia cuspidata* C. Martius; A; L; EA 681. *R. edulis* Triana & Planchon; A; L; EA 523. *Unonopsis* sp. 1; A; P; EA 796. *U. stipitata* Diels; A; P; EA-55. *Xylopia* aff. *benthamii* R. E. Fries; A; P; CL 1423. *X. excellens* R. E. Fries; A; L; EA 410. *X. parvifolia* Diels; A; P; CL 709. *X. sericea* A. St. Hilaire; A; P; CL 1232.

**APOCYNACEAE:** Apocynaceae sp. 1; SL; L; CL 1641. *Aspidosperma* aff. *megalocarpon* Muell. Arg.; A; P; CL 1147. *A.* cf. *desmanthum* Bentham & Muell. Arg.; A; P; CL 1301. *A.* cf. *schultesii* Woodson; A; L; P; EA 295. *A. excelsum* Bentham; A; P; CL 1231. *A. marcgravianum* Woodson; A; L; EA 86. *A.* sp. 1; A; P; CL 1001. *A.* sp. 2; A; P; EA 180. *A.* sp. 3; A; P; CL 1277. *A.* sp. 4; A; L; EA 83. *A.* sp. 5; A; L; EA 447. *A.* sp. 6; A; L; EA 411. *Couma macrocarpa* Barbosa Rodrigues; A; P; CL A9. *Forsteronia* sp. 1; A; P; CL 926. *Lacmellea* aff. *oblongata* Markgraf; A; L;



EA 531. *L. cf. arborescens* (Muell. Arg.) Markgraf; A; P; CL 1143. *L. cf. gracilis* (Muell. Arg.) Markgraf; A; L; CL 1615. *L. foxii* (Stapf) Markgraf; A; P; CL 838. *L. sp. 1*; A; P; EA 875. *L. sp. 2*; A; P; CL 1305. *L. sp. 3*; A; P; EA 49. *Macoubea* aff. *witotorum* R. Schultes; A; P; CL 850. *Malouetia* aff. *killipii* Woodson; A; L; EA 739. *M. aff. peruviana* Woodson; A; L; EA 706. *M. sp. 1*; A; P; CL 1377. *M. sp. 2*; A; P; CL 1509. *Mandevilla* sp. 1; SL; P; CL 259. *M. sp. 2*; SL; P; EA 1181. *Mesechites* cf. *bicorniculata* (Rusby) Woodson; SL; P; EA 1175. *Mesechites?* sp. 1; SL; P; CL 1395. *Odontadenia macrantha* (Roemer & Schultes) Markgraf; SL; L; EA 804. *O. sp. 1*; SL; L; EA 1210. *O. sp. 2*; SL; P; CL 1388. *O. sp. 3*; SL; P; EA 1130. *Parahancornia* cf. *peruviana* Monachino; A; P; CL 1156. *Prestonia* sp. 1; SH; L; EA 815. *P. sp. 2*; SH; L; EA 376. *Tabernaemontana* aff. *macrocalyx* Muell. Arg.; T; P; CL 215. *T. cf. tetrastachys* Kunth; T; P; CL 724. *T. sp. 1*; T; L; EA 694. *T. sp. 2*; A; P; CL 1347.

**ARACEAE:** *Anthurium* aff. *atropurpureum* R. Schultes & Maguire; SEH; L; EA 677. *A. aff. gracile* (Rudge) Schott; SEH; L; EA 1200. *A. cf. pentaphyllum* (Aublet) G. Don; SEH; L; EA 545. *A. cf. polyschistum* R. Schultes & Idrobo; SEH; P; EA 701. *A. clavigerum* Poeppig & Endlicher; SEH; L; EA 620. *A. sp. 1*; SEH; L; EA 678. *A. sp. 2*; SEH; L; CL 1525. *A. sp. 3*; SEH; L; EA 593. Araceae sp. 1; SH; L; EA 292. *A. sp. 4*; SH; P; EA 1079. *A. sp. 5*; SH; P; CL 566. *Dieffenbachia* sp. 1; H; L; CL 1566. *Heteropsis* cf. *macrophylla* Kunth; SL; P; CL 168. *H. cf. oblongifolia* Kunth; SL; L; P; CL 1146. *H. cf. spruceana* Schott; SL; P; CL 158. *H. jenmanii* Oliver; SL; L; P; EA 1098. *H. sp. 1*; SL; P; CL 307. *H. sp. 2*; SL; P; CL 804. *Monstera* sp. 1; SEH; L; CL 1595. *Philodendron* aff. *fragrantissimum* (Hooker) G. Don; SEH; P; EA 1078. *P. cf. longistilum* K. Krause; SEH; P; CL 630. *P. chanchamayense* Engler; SEH; L; EA 321. *P. insigne* Schott; SEH; P; EA 1034. *P. pteropus* C. Martius ex Schott; SEH; L; EA 604. *P. sp. 01*; SEH; P; CL 1028. *P. sp. 02*; SEH; L; CL 1633. *P. sp. 03*; SEH; P; EA 1059. *P. sp. 04*; SEH; L; P; EA 609. *P. sp. 05*; SEH; P; CL 1508. *P. sp. 06*; SEH; L; EA 581. *P. sp. 07*; SEH; P; CL 250. *P. sp. 08*; SEH; P; CL 666. *P. sp. 09*; SEH; P; CL 360. *P. sp. 10*; SEH; P; CL 477. *P. sp. 11*; SEH; P; EA 1077.

**ARALIACEAE:** *Dendropanax* aff. *cuneatus* (DC.) Decaisne & Planchon; A; P; CL 968. *D. sp. 1*; SZL; L; EA 657.

**ARECACEAE:** *Astrocaryum aculeatum* G. Meyer; PAM; L; *A. gynacanthum* C. Martius; PAC; L; CL 1650. *A. sciophilum* (Miquel) Pulle; PAM; L; EA 615. *Bactris balanophora* Spruce; PTM; P; CL 689. *B. hirta* C. Martius; PTM; P; CL 848. *B. humilis* (Wallace) Burret; PTM; P; CL 1471. *B. killipii* Burret; PTM; P; CL 965. *B. monticola* Barbosa Rodrigues; PAC; L, P; CL 1601. *B. simplicifrons* C. Martius; PTM; P; EA 1191. *Chamaedorea pauciflora* C. Martius; PTM; L; EA 554. *Desmoncus polyacanthos* C. Martius; PSL; L; EA 307. *D. pumilus* Trail; PSL; L; EA 603. *D. setosus* C. Martius; PSL; L; EA 902. *Euterpe precatorea* C. Martius; PAM; L; EA 622. *Geonoma macrostachys* C. Martius; PTU; L; CL 1563. *G. multiflora* C. Martius; PTM; P; CL 783. *G. piscicauda* Dammer; PTM; P; CL 1016. *G. poeppigiana* C. Martius; PTM; L; EA 565. *G. pycnostachys* C. Martius; PTC; L; CL 1603. *Iriartea deltoidea* R. & P.; PAM; L; EA 266. *Iriartella setigera* (C. Martius) H. A. Wendland; PTC; P; CL-876. *Lepidocaryum tenue* C. Martius; PTC; P; CL 1518. *Oenocarpus bacaba* C. Martius; PAM; P; CL 1381. *O. bataua* C. Martius; PAM; P; *O. mapora* Karsten; PAC; L; EA 621. *Orbignya polysticha* Burret; PTU; P; CL 1379. *Pholidostachys synanthera* (C. Martius) H. Moore; PTM; P; CL 1380. *Socratea exorrhiza* (C. Martius) H. A. Wendland; PAM; P; CL 1378. *Wettinia augusta* Poeppig & Endlicher; PAM; P; CL 878.

**ASCLEPIADACEAE:** *Cynanchum (Mellichampia) sp. nov. aff. C. riometense* Sundell; SH; L; EA 807.

**ASPLENIACEAE:** *Lomagramma guianensis* (Aublet) Ching; FSH; L; EA 207. *Lomariopsis japurensis* J. Sm.; FSH; L; EA 327. *L. sp. 1*; FSH; L; EA 233. *Polybotrya sp. 1*; FSH; P; CL 112.

**ASTERACEAE:** *Mikania vaupesensis* W. Holmes & McDaniel; SL; L; EA 1247. *Mikania? sp. 1*; SL; L; EA 1225. *Piptocarpha poeppigiana* (DC.) Baker; SL; L; EA 110.

**BIGNONIACEAE:** *Arrabidaea aff. oligantha* Bureau & Schumann; SL; P; CL 366. *A. bilabiata* (Sprague) Sandwith; SL; L; EA 698. *A. covallim* (Vaq.) Sandwith; SL; L; EA 1214. *A. sp. 1*; SL; P; CL 614. Bignoniaceae sp. 1; SL; L; EA 1205. *B. sp. 2*; SL; P; EA 1159. *Callichlamys latifolia* (Richard) Schumann; SL; L; EA 1212. *Cydista aequinoctialis* (L.) Miers; SL; L; EA 812. *Distictella sp. nov. aff. D. parkeri* DC.; SL; P; CL 1136. *Distictis pulverulenta* (Sandwith) A. Gentry; SL; P; CL 1187. *Jacaranda*

*macrocarpa* Bureau & Schumann ex Schumann; A; P; CL 1067. *J. obtusifolia* Humboldt & Bonpland ssp. *obtusifolia*; A; P; CL 323. *Martinella obovata* (H. B. K.) Bureau & Schumann; SL; P; CL A16. *Memora cladotricha* Sandwith; SL; L, P; EA 617. *M. pseudopatula* A. Gentry; SL; L; EA 768. *Memora?* sp. 1; SL; L; EA 236. *Paragonia pyramidata* (Richard) Bureau.; SL; L; CL 1608. *P.* sp. 1; SL; P; CL 526. *Pleonotoma jasminifolia* (H. B. K.) Miers; SL; P; CL 205. *Potamogonos* sp. 1; SL; P; CL 124. *Schelegelia* sp. 1; SL; L; EA 1237. *Tenaecium jaroba* Swartz; SL; L; EA 918. *Tynanthus* aff. *goudotianus* (Bureau) Sandwith; SL; P; CL 1449. *T. panurensis* (Bureau) Sandwith; SL; P; CL 625.

**BOMBACACEAE:** *Huberodendron swietenioides* (Gleason) Ducke; A; P; CL 1200. *Matisia* cf. *bracteolosa* Ducke; A; L; EA 473. *M. lasiocalyx* Schumann; A; L; CL 1616. *Pachira aquatica* Aublet; A; L; EA 731. *Scleronema micranthum* (Ducke) Ducke; A; P; CL 1329. *S. praecox* Ducke; A; P; CL 1191.

**BORAGINACEAE:** Boraginaceae? sp. 1; SL; L; EA 1217. *Cordia nodosa* Lamarck; A; P; EA 1177. *C.* sp. 1; A; L; EA 232. *C.* sp. 2; A; P; CL 1515.

**BURSERACEAE:** Burseraceae sp. 1; A; L; EA 427. *Dacryodes chimatensis* Steyermark & Maguire; A; P; CL 901. *D. cuspidata* (Cuatrecasas) Daly; A; L; EA 653. *D. nitens* Cuatrecasas; A; P; CL 769. *D. sclerophylla* Cuatrecasas; A; P; EA 878. *D.* sp. nov. 1; A; P; CL 1166. *D.* sp. nov. 2; A; P; CL 735. *Protium* aff. *rubrum* Cuatrecasas; A; P; CL 1372. *P. altsonii* Sandwith; A; P; CL 1302. *P. apiculatum* Swart; A; P; EA 880. *P. aracouchini* (Aublet) Marchand; A; P; CL 1486. *P.* cf. *polybotryum* (Turczaninow) Engler; A; P; CL 1218. *P. elegans* Engler; A; P; EA 1017. *P. gallosum* Daly, ined.; A; P; CL 1073. *P. hebetatum* Daly; A; P; CL-1666. *P. krukovii* Swart; A; L; EA 704. *P. nodulosum* Swart; A; L, P; CL 1544. *P. paniculatum* Engler ex C. Martius ssp. *paniculatum*; A; P; CL 1202. *P.* sp. 1; A; P; CL 139. *P.* sp. nov. aff. *P. gallosum* Daly, ined.; A; P; CL 1230. *P. subserratum* (Engler) Engler; A; P; CL 908. *P. urophyllidium* Daly, ined.; A; P; CL 1700. *Trattinnickia glaziovii* Swart; A; P; CL 1116.

**CAESALPINIACEAE:** *Bauhinia guianensis* Aublet; SL; P; CL 1414. *B.* sp. 1; SL; P; CL 1516. *B.* sp. 2; SL; P; CL 1140. *Brownea latifolia* Jacq.;

A; L; CL 1554. *Caesalpinaceae* sp. 1; A; P; CL 764. *C.* sp. 2; A; P; CL 1288. *Campsiandra angustifolia* Spruce ex Bentham; A; L; EA 922. *Cynometra* cf. *marginata* Bentham; A; L; EA 412. *Heterostemon conjugatus* Bentham; A; L; EA 511. *Hymenaea oblongifolia* Huber; A; L; CL 1548. *Macrolobium acaciaefolium* (Bentham) Bentham; A; L; CL 1570; EA 1248. *Sclerolobium* sp. 1; A; P; CL 54. *Senna macrophylla* (Kunth) H. Irwin ssp. *gigantifolia* (Britton & Killip) H. Irwin & Barneby; A; L; EA 6; EA 675. *Tachigali* cf. *paniculata* Aublet; A; P; CL 1086. *T.* sp. 1; A; P; CL 768. *T.* sp. 2; A; P; CL 445. *T.* sp. 3; A; P; CL 918. *T.* sp. 4; A; P; EA 191. *T.* sp. 5; A; P; CL 1141. *T.* sp. 6; A; P; CL 817. *T.* sp. 7; A; P; CL 989. *Vatairea guianensis* Aublet; A; L; EA 716.

**CARYOCARACEAE:** *Anthodiscus* cf. *amazonicus* Gleason & A. C. Smith; A; P; EA 881. *Caryocar glabrum* (Aublet) Persoon; A; P; CL 822. *C. gracile* Wittm.; A; P; CL 975.

**CECROPIACEAE:** *Cecropia* cf. *membranacea* Trécul; A; P; EA 800. *C. discolor* Cuatrecasas; A; L; EA 422. *Coussapoa* aff. *martiana* Miquel; SZL; L; EA 94. *Pourouma* aff. *acuminata* C. Martius ex Miquel; A; P; CL 352. *P.* aff. *minor* Benoist; A; P; EA 1149. *P.* aff. *tomentosa* Miquel ssp. *tomentosa*; A; P; CL 1510. *P. cucura* Standley & Cuatrecasas; A; L; EA 724. *P. myrmecophila* Ducke; A; P; CL 832. *P.* sp. 1; A; P; EA 1165. *P.* sp. 2; A; P; CL 1455. *P.* sp. 3; A; L; EA 598.

**CELASTRACEAE:** Celastraceae sp. 1; T; P; CL 1026. *Cheiloclinium* sp. 1; SL; P; CL 1362. *Peritassa* sp. 1; SL; P; CL 1107.

**CHRYSOBALANACEAE:** Chrysobalanaceae sp. 1; A; P; EA 196. *C.* sp. 2; A; P; EA 827. *Couepia* cf. *guianensis* Aublet; A; P; CL 1010. *C. chrysocalyx* (Poeppig) Bentham & Hooker f.; A; P; EA 100. *C. krukovii* Standley.; A; P; CL 881. *C.* sp. 1; A; L; EA 72. *C.* sp. 2; A; P; CL 1321. *Hirtella* aff. *brachystachya* Spruce ex Hooker f.; A; P; EA 900. *H.* aff. *davisii* Sandwith; A; L; EA 392. *H.* aff. *hispidula* Miquel; A; L; EA 753. *H.* aff. *latifolia* Prance; A; L; EA 645. *H.* aff. *macrophylla* Bentham ex Hooker f.; A; L; EA 108. *H.* aff. *obidensis* Ducke; A; P; CL 409. *H.* aff. *pilosissima* C. Martius & Zuccarini; A; L; EA 740. *H.* aff. *shultesii* Prance; A; P; CL 442. *H.* aff. *ulei* Pilg.; A; P; CL 1421. *H. guianiae* Spruce & Hooker f.; A; L; CL 1618. *H. triandra* Swartz; T; P; CL 1027. *Licania* aff. *alba* (Bernoulli) Cuatrecasas; A; P; CL 1198. *L.* aff. *arachnoidea* Fanshawe & Maguire; A; L; EA 914. *L.* aff. *canescens* Benoist; A; P; CL

397. *L. aff. cruegeriana* Urb.; A; P; CL 175. *L. aff. hypoleuca* Benthams; A; P; CL 885. *L. aff. kunthiana* Hooker f.; A; P; CL 1412. *L. aff. leucosepala* Grisebach; A; P; EA 170. *L. aff. macrocarpa* Cuatrecasas; A; P; CL 1505. *L. aff. oblongifolia* Standley; A; L; EA 472. *L. aff. octandra* (Hoffmannsegg ex Roemer & Schultes) Kuntze; A; P; CL 1386. *L. aff. triandra* C. Martius & Hooker f.; A; L; EA 423. *L. aff. vaupesana* Killip & Cuatrecasas; A; L; EA 747. *L. apetala* (E. Meyer) Fritchs; A; P; CL 1261. *L. cf. harlingii* Prance; A; L, P; EA 357. *L. heteromorpha* Benthams; A; P; CL 1252. *L. reticulata* Prance; A; L; EA 446. *L. sp. 2*; A; P; CL 557. *L. sp. 3*; A; L; EA 647. *L. sp. 4*; A; L; EA 654. *L. sp. 5*; A; P; CL 522. *L. sp. 6*; A; P; CL 1149.

**CLUSIACEAE:** *Calophyllum?* sp. 1; A; P; EA 1032. *Caraipa* aff. *grandifolia* C. Martius; A; L; EA 112. *Clusia (Cruvopsis) alvarezii* Pipoly, sp. nov. ined.; SEL; L; EA 116. *C. aff. lineata* (Benthams) Planchon & Triana; SEL; L; EA 765. *C. aff. nigrolineata* P. F. Stevens; SEL; P; CL 974. *C. columnaris* Engler; SEL; P; CL 1125. *C. gandichandii* Choisy ex Planchon & Triana; SEL; P; EA 877. *C. grammadenioides* Pipoly, sp. nov. ined.; SEL; P; CL 1150. *C. myriandra* Planchon & Triana; SEL; P; CL 1046. *C. penduliflora* Engler; SEL; P; CL 1667. *C. viscida* Engler; SEL; P; CL 824. *Garcinia macrophylla* C. Martius; A; L; EA 347. *G. sp. 1*; A; L; EA 688. *G. sp. 2*; A; L, P; EA 755. *G. spruceana* (Engler) Hammel; A; L; EA 728. *Lorostemon* sp. 2; A; P; CL 952; CL 1670. *Moronobea? Platonina?*; A; P; CL 1303. *Quapoya longipes* (Ducke) Maguire; SL; P; CL 1090. *Q. peruviana* (Poeppig) Kuntze; SL; P; CL 835. *Rhedia acuminata* (R. & P.) Planchon & Triana; A; P; CL 1684. *Symphonia globulifera* L. f.; A; L; EA 89. *Tovomita* aff. *krukovii* Smith; A; L; EA 683. *T. aff. weddelliana* Triana & Planchon; A; P; CL 1448. *T. cf. brevistaminea* Engler; A; P; CL 188. *T. pyrifolia* Smith; A; L; EA 103. *T. schomburgkii* Planchon & Triana; A; P; CL 577. *T. sp. 1*; A; P; CL 829. *T. sp. 2*; A; P; CL 727. *T. sp. 3*; A; P; CL 447. *T. sp. 4*; A; L, P; CL 1451. *T. speciosa* Ducke; A; L; EA 506. *Tovomita?* sp. 5; A; P; CL 665. *Vismia angusta* Miquel; A; L; EA 633. *V. sp. 1*; A; L; EA 605. *V. sp. 2*; A; L; EA 927.

**COMBRETACEAE:** *Buchenavia amazonica* Al-Mayah & Stace; A; L, P; CL 1547. *B. parvifolia* Ducke; A; P; EA 841. *Terminalia* aff. *amazonica* (J. F. Gmelin) Exell; A; L; EA 635. *T. aff. brasiliensis* Eichler; A; P; CL

1304. *T. aff. dichotoma* G. Meyer; A; L; CL 1575. *T. aff. oblonga* (R. & P.) Steudel; A; P; EA 790. *T. sp. 2*; A; L; CL 1531.

**COMMELINACEAE:** Commelinaceae sp. 1; H; L; EA 1249.

*Dichorisandra ulei* J. F. Macbride; H; L; EA 101. *Floscopa peruviana* Hasskarl ex C. B. Clarke; H; L; EA 923.

**CONNARACEAE:** *Connarus aff. erianthus* Bentham ex Baker; A; P; CL 301. *C. aff. fasciculatus* (DC.) Planchon; A; P; CL 856. *C. sp. 1*; T; P; EA 848. *C. sp. 2*; T; L; EA 231. *Pseudoconnarus cf. rhynchosoides* (Standley) Prance; SL; P; CL 258. *P. macrophyllus* (Poeppig) Radlkofer; SL; P; CL 349. *Rourea aff. crysomalla*; SL; P; EA 1143. *R. aff. cuspidata* Bentham ex Baker; SL; L; EA 74. *R. cf. camptoneura* Radlkofer; SL; P; EA 1038. *R. sp. 1*; T; P; CL 598. *R. sp. 2*; A; P; CL 223. *R. sp. 3*; SL; L; EA 1229.

**CONVOLVULACEAE:** Convolvulaceae sp. 1; SL; P; EA 1036. *C. sp. 2*; SL; P; CL 551. Convolvulaceae? sp. 3; SL; L, P; EA 607. *C. sp. 4*; SL; L; EA 1235. *C. sp. 5*; SL; P; EA 1152. *Dicranostyles aff. longifolia* Ducke; SL; P; EA 1093. *D. sp. 1*; SL; P; CL 1189. *Evolvulus sp. 1*; SH; P; CL 200. *Maripa cf. peruviana* van Oostroom; SL; P; CL 959. *M. sp. 1*; SL; P; EA 876. *M. sp. 2*; SL; P; CL 1334. *Maripa?* sp. 3; SL; P; CL 459.

**COSTACEAE:** *Costus scaber* R. & P.; H; L; CL 1561.

**CUCURBITACEAE:** *Cayaponia coriacea* Cogniaux; SH; L; EA 824. *C. oppositifolia* Harms; SH; L, P; EA 586. *Gurania eriantha* (Poeppig & Endlicher) Cogniaux; SH; L; CL 1597. *G. sp. 1*; SH; P; EA 1169. *G. spinulosa* (Poeppig & Endlicher) Cogniaux; SH; P; CL 1695. *Psiguria triphylla* (Miquel) C. Jeffrey; SH; L; EA 1207.

**CYATHEACEAE:** Cyatheaceae sp. 1; FA; L; EA 367. *Sphaeropteris macrosora* (Baker) Windisch; FA; P; CL 490.

**CYCLANTHACEAE:** *Asplundia cf. vaupesiana* Harling; SH; P; CL 695. *A. sp. 1*; SH; P; CL 105. Cyclanthaceae sp. 1; SH; P; CL 647. *C. sp. 2*; SH; L; EA 696. *Cyclanthus bipartitus* Poiteau; H; L; EA 556. *Thoracocarpus aff. bisectus* (Vell. Conc.) Harling; SH; L; EA 685.

**CYPERACEAE:** *Calyptrocarya? Scleria?*; H; L; EA 570.

**DENNSTAEDTIACEAE:** *Lindsaea aff. coarctata* Kramer; FH; P; CL 325. *L. lancea* (L.) Bedd.; FH; P; EA 1106.

**DICHAPETALACEAE:** *Tapura amazonica* Poeppig & Endlicher; A; L; EA 107. *T. cf. capitulifera* Spruce ex Baillon; A; L; EA 750. *T. peruviana* K. Krause; A; L; CL 1559.

**DILLENACEAE:** *Doliocarpus* aff. *confertus* Rusby; SL; L; P; EA 663. *D. cf. multiflorus* Standley; SL; L; EA 921.

**DIPTEROCARPACEAE:** *Pseudomonotes tropenbosii* Londoño, Álvarez, Forero & Morton, género y sp. nov.; A; P; CL 1698.

**EBENACEAE:** *Diospyros* aff. *glomerata* Spruce; A; P; CL 954. *D. opacifolia* J. F. Macbride; A; L; P; EA 552. *D. peruviana* Hiern; A; L; EA 757. *D. sp. 1*; A; P; EA 1074.

**ELAEOCARPACEAE:** *Sloanea* aff. *floribunda* Spruce & Benth; A; P; CL 1487. *S. aff. obtusa* (Spligt.) Schumann; A; P; CL 1254. *S. aff. robusta* Uittien; A; P; CL 722. *S. cf. brevipes* Benth; A; P; CL 1364. *S. cf. fragans* Rusby; A; L; EA 529. *S. grandiflora* Smith; A; P; CL 116. *S. parviflora* Planchon ex Benth; A; L; EA 749. *S. sp. 1*; A; P; CL 833. *S. sp. 2*; A; P; CL-1075; CL 1678. *S. sp. 3*; A; P; EA 162. *S. sp. 4*; A; P; CL 1392. *S. sp. 5*; A; P; CL 1172. *S. sp. 6*; A; L; EA 751. *S. sp. 7*; A; P; EA 1174. *S. yapacanae* Steyermark; A; P; CL 1357.

**ERICACEAE:** *Satyria panurensis* (Benth ex Meissner) Benth & Hooker f.; SEL; P; CL 900.

**ERYTHROXYLACEAE:** *Erythroxyton gracilipes* Peyritsch; T; L; CL 1564. *E. sp. 1*; A; P; CL 1145.

**EUPHORBIACEAE:** *Acalypha* aff. *mapirensis* Pax; A; L; EA 712. *Alchornea* aff. *discolor* Poeppig; A; P; CL 1343. *A. aff. glandulosa* Poeppig; A; L; EA 636. *A. sp. 1*; A; P; CL 1282. *Alchorneopsis* aff. *floribunda* (Benth) Muell. Arg.; A; P; EA 1156. *Amanoa* cf. *guianensis* Aubl.; A; P; EA 128. *Conceveiba guianensis* Aublet; A; L; EA 413. *Croton monachinos* Baehni; A; L; EA 637. *Dalechampia* aff. *parvibracteata* Landj.; SL; L; EA 826. *Dodecastigma amazonicum* Ducke; A; L; CL 1551. *Drypetes amazonica* Ducke; A; L; EA 466. *Hevea* cf. *guianensis* Aublet; A; P; EA 842. *H. cf. pauciflora* (Spruce ex Benth) Muell. Arg.; A; P; CL 713. *H. sp. 1*; A; P; CL 697. *H. sp. 2*; A; P; CL 1691. *Hyeronima* aff. *alchorneoides* Allemão.; A; L; EA 385. *Mabea* aff. *macbridei* I. M. Johnston; A; L; EA 325. *M. aff. occidentalis* Benth; A; P; CL 1694. *M. cf. caudata* Pax & Hoffmann; A; L; P; CL 1582. *Maprounea guianensis* Aublet; A; P; CL 1459. *Margaritaria nobilis* L. f.;

A; L; EA 687. *Omphalea diandra* L.; SL; L; EA 656. *Sapium marmieri* Huber; A; L; EA 505. *Senefeldera karsteniana* Pax. & Hoffm.; A; P; CL 1135.

**FABACEAE:** *Andira* sp. 1; A; L; EA 33. *Clathrotropis macrocarpa* Ducke; A; L, P; CL 1353. *Clathrotropis* sp. 1; A; L; EA 209. *Clitoria* sp. 1; SL; P; CL 1211. *C.* sp. 2; SL; L; EA 572. *Dalbergia* sp. 1; A; L; EA 597. *Dioclea* aff. *dictyoneura* Diels; SL; P; EA 1127. *D.* aff. *glabra* Bentham; SL; P; EA 1146. *Diplostropis martiusii* Bentham; A; P; EA 840. *D.* sp. 1; A; P; CL 1274. *Dipteryx* aff. *cordata* (Ducke) Cowan; A; P; CL 970. *D.* cf. *nudipes* Tul; A; L; EA 407. *D. polyphylla* Huber; A; P; CL 882. *D.* sp. 1; A; P; CL 1457. Fabaceae sp. 1; SL; L; EA 336. *F.* sp. 2; A; P; CL 1417. *F.* sp. 3; A; P; EA 1164. *F.* sp. 4; A; P; EA 163. *F.* sp. 5; A; L; EA 625. *F.* sp. 6; SL; P; EA 1170. *F.* sp. 7; A; L; EA 746. *Lonchocarpus* aff. *latifolius* H. B. K.; A; L; EA 22. *L.* aff. *pterocarpus* DC.; SL; L; EA 764. *L.* cf. *nicou* (Aublet) DC.; A; L; EA 345. *L.* sp. 1; A; L; EA 738. *Machaerium* aff. *arboreum* Bentham; A; L; EA 736. *M.* aff. *frondosus* C. Martius; SL; P; EA 1154. *M.* aff. *macrophyllum* Bentham; SL; P; CL-1521. *M.* aff. *madeirense* Pittier; SL; P; EA 1142. *M.* aff. *paraense* Ducke; SL; L; EA 660. *M.* cf. *oblongifolium* Vog.; SL; L; EA 1209. *M. inundatum* (C. Martius ex Bentham) Ducke; SL; L; EA 97. *M. multifoliolatum* Ducke; SL; P; CL 1466. *M.* sp. 1; SL; P; CL 575. *M.* sp. 2; A; P; CL 1234. *M.* sp. 3; SL; L; EA 1245. *M.* sp. 4; SL; P; EA 1129. *M.* sp. 5; SL; L; EA 1227. *M.* sp. 6; SL; L; EA 727. *Mucuna* sp. 1; SL; L; EA 320. *Muellera* sp. 1; SL; P; CL 595. *Myrocarpus* aff. *frondosus* Fr. Allem.; SL; P; CL 1126. *Ormosia* aff. *coccinea* (Aublet) Jackson; A; L; EA 522. *O.* aff. *lehmanii*; A; P; CL 1393. *O. macrophylla* Bentham; A; P; CL 1355. *O.* sp. 1; A; L; EA 748. *Poecilanthe* sp. 1; SL; L; EA 361. *Pterocarpus* aff. *amazonum* (C. Martius ex Bentham) Amshoff; A; L; EA 658. *P.* aff. *draco* L.; A; L; EA 729. *P.* sp. 1; A; L; EA 648. *P.* sp. 2; A; P; EA 1024. *Swartzia* aff. *amplifolia* Harms; A; P; CL-1708. *S.* aff. *benthamiana* Miquel; A; P; CL 1493. *S.* aff. *brachyrachys* Harms; A; P; EA 861. *S.* aff. *cardiosperma* Spruce ex Bentham; A; L, P; EA 722. *S.* aff. *parvifolia* Schery; A; P; CL 1021. *S.* aff. *polyphylla* DC.; A; P; CL 1237. *S.* aff. *pycta* Bentham; A; P; CL 645. *S.* aff. *simplex* (Swartz) Sprengel; A; L; EA 351. *S. arborescens* (Aublet) Pittier; A; L; EA 487. *S.* cf. *racemosa* Bentham; A; L; EA 730. *S. laevicarpa* Amshoff; A; L, P; EA 707. *S. lamellata* Ducke; A; P; CL 1262.



*S. schomburgkii* Benthams; A; P; CL 811. *S. sp. 1*; A; L; EA 700. *S. sp. 2*; A; P; CL 163. *Taralea* aff. *opositifolia* Aublet; A; L; EA 628. *Zollernia?* sp. 1; A; L; EA 579.

**FLACOURTIACEAE:** *Carpotroche amazonica* C. Martius ex Eichler; A; P; CL 953; CL 1676. *Casearia* aff. *fasciculata* (R. & P.) Sleumer; A; L; EA 486. *C. aff. oblongifolia* Camb.; A; P; EA 179. *C. aff. suaveolens* (Poeppig) Benthams; A; P; CL 1291. *C. cf. decandra* Jacquin; A; L, P; CL 1590. Flacourtiaceae sp. 1; A; L; EA 530. *Mayna* aff. *odorata* Aublet; T; L; CL 1568. *Ryania speciosa* M. Vahl.; A; L; EA 689.

**GENTIANACEAE:** *Tachia occidentalis* Maguire & Weaver; T; P; CL 1683.

**GESNERIACEAE:** *Kohleria* cf. *hirsuta* Regel; H; L; EA 912.

**HELICONIACEAE:** *Heliconia acuminata* A. Richard; H; L; EA 248. *H. lasiorachis* L. Andersson; H; L; EA 91. *H. shumanniana* Loesener; H; L; EA 602. *H. sp. 1*; H; L; EA 555. *H. stricta* Huber; H; L; CL 1585.

**HIPPOCRATEACEAE:** Hippocrateaceae sp. 1; T; P; CL 184. *H. sp. 2*; SL; P; CL 618. *H. sp. 3*; SL; L; EA 1204. *Salacia* aff. *macrantha* A. C. Smith; SL; L; EA 538. *S. cf. impressifolia* (Miers) A. C. Smith; A; L; EA 643. *S. gigantea* Loesener; SL; L; EA 96. *S. insignis* A. C. Smith; SL; L; EA 1223. *S. sp. 2*; SL; P; EA 1065. *Salacia?* sp. 1; SL; L; EA 752.

**HUMIRIACEAE:** *Humiria* aff. *balsaminifera* Aublet; A; P; CL 1472. Humiriaceae? sp. 1; A; P; CL 484. *Sacoglottis* aff. *amazonica* C. Martius; A; P; EA 157. *Sacoglottis?* *Schistostemon?*; A; P; EA 146. *Vantanea* cf. *peruviana* J. F. Macbride; A; P; EA;1182. *Vantanea* sp. 1; A; P; CL 542. *V. spichigeri* A. Gentry; A; P; CL 1133.

**HYMENOPHYLLACEAE:** *Trichomanes ankersii* Hook. & Grev; FSH; P; CL 642.

**ICACINACEAE:** *Calatola* sp. 1; A; L; CL 1543. *Casimirella* aff. *ampla* (Miers) R. Howard; SL; L; EA A536. *Citronella* sp. 1; SL; L; EA 818. *Dendrobangia boliviana* Rusby; A; P; EA 854. *Discophora guianenesis* Miers; A; P; EA 1008. Icacinaceae sp. 1; A; P; CL 394. *Leretia* cf. *cordata* Vell. Conc.; SL; L; EA 1234. *L. sp. 1*; SL; L; EA 212. *L. sp. 2*; SL; P; EA 1145.

**INDETERMINADOS:** Indeterminado sp. 01; A; P; CL 136. I. sp. 02; SL; L; EA 1206. I. sp. 03; A; P; CL 672. I. sp. 04; A; L; EA 237. I. sp. 05; SL; P; CL 239. I. sp. 06; SL; L; EA 763. I. sp. 07; SL; L; EA 1231. I. sp. 08;

A; P; EA 871. I. sp. 09; A; P; CL 663. I. sp. 10; A; P; CL 256. I. sp. 11; SL; P; CL 1253. I. sp. 12; SL; P; CL 863. I. sp. 13; A; P; CL 110. I. sp. 14; SL; P; EA-1161. Leguminosae sp. 1; SL; P; CL 1394. L. sp. 2; SL; P; CL 1333. Pteridophyta sp. 1; FH; P; EA 1052. P. sp. 2; FH; L; EA 547.

**LAURACEAE:** *Aniba* aff. *guianensis* Aublet; A; L; EA 920. *A. cf. hostmanniana* (Nees) Mez; A; P; CL 94. *A. cf. williamsii* O. Schmidt; A; P; CL 1475. *Aniba puchury minor* (C. Martius) Mez; A; P; EA 859. *A. sp. 1*; A; P; CL 20. *A. sp. 2*; A; P; CL 1080. *A. sp. 3*; A; P; CL 1659. *A. sp. 4*; A; P; CL 478. *Beilschmiedia* aff. *brasiliensis* (Kostermans) Kostermans; A; P; CL 941. *Caryodaphnopsis?* sp. 1; A; P; EA 906. *Endlicheria* cf. *verticilata* Mez; A; L; EA 13. *E. krukovii* (A. C. Smith) Kostermans; A; L; EA 482. *E. sericea* Nees; A; P; EA 830. *E. sp. 2*; A; P; CL 920. *E. sp. nov. 1*; A; P; CL 1495. *E. sprucei* (Meissner) Mez; A; P; EA 1150. *E. williamsii* O. Schmidt; A; L; EA 662. *Endlicheria? Ocotea?*; A; P; CL 944.

Lauraceae sp. 1; A; L; EA 562. L. sp. 2; A; P; EA 851. L. sp. 3; A; L; EA 402. L. sp. 4; A; L, P; CL 1646. L. sp. 5; A; P; EA A1035. Lauraceae? sp. 6; A; P; CL 314. L. sp. 7; A; P; EA 1084. *Licaria guianensis* Aublet; A; P; CL 1032. L. sp. 1; A; P; CL 1350. *Mezilaurus itauba* (Meissner) Taubert ex Mez; A; P; CL 1092. *Nectandra* aff. *cuspidata* Nees; A; P; EA 1030. *N. aff. pisi* Miquel; A; L; CL 1571; EA 1243. *N. sp. 1*; A; L; EA 509. *N. sp. 2*; A; P; CL 146. *N. sp. 3*; A; L; EA 718. *N. sp. 4*; A; P; CL 406. *Ocotea aciphylla* (Nees) Mez; A; P; EA-853. *O. aff. cernua* (Nees) Mez; A; P; CL 1244. *O. aff. neblinae* Allen; A; P; CL 1281. *O. amazonica* (Meissner) Mez; A; L, P; CL 1213. *O. argyrophylla* Ducke; A; P; CL 1242. *O. cymbarum* H. B. K.; A; P; CL 814. *O. leucoxylon* (Swartz) de Lanessan; A; P; CL 1280. *O. sp. 01*; A; P; CL 1440. *O. sp. 02*; A; L; EA 283. *O. sp. 03*; A; P; CL 310. *O. sp. 04*; A; P; EA 193. *O. sp. 05*; A; P; CL 601. *O. sp. 06*; A; P; CL 1522. *O. sp. 07*; A; P; EA 866. *O. sp. 08*; A; P; CL 443. *O. sp. 09*; A; L; EA 461. *O. sp. 10*; A; L, P; EA 481. *O. sp. 11*; A; P; CL 1044; CL 1336. *O. sp. 12*; A; P; CL 1082. *O. sp. 13*; A; P; EA;855. *O. sp. 14*; A; P; CL 921. *O. sp. 15*; A; P; CL 1259. *O. sp. 16*; A; P; CL 545. *Ocotea? Endlicheria?*; A; P; CL 64. *Rhodostemonodaphne* sp. 1; A; P; CL 1300. *R. sp. 2*; A; L, P; EA 126. *R. sp. 4*; A; P; EA 198. *R. sp. 5*; A; P; EA 1082. *R. sp. 6*; A; P; CL 945.

**LECYTHIDACEAE:** *Cariniana decandra* Ducke; A; P; CL 1365. *Couratari guianensis* Aublet; A; L; EA A458. *Eschweilera bracteosa*

(Poeppig ex Berg) Miers; A; P; CL 841. *E. cf. alata* A. C. Smith; A; P; CL 581. *E. cf. albiflora* (A. DC.) Miers; A; L; CL 1649. *E. cf. andina* (Rusby) J. F. Macbride; A; L; P; EA 897. *E. cf. laevicarpa* S. Mori; A; P; CL 1709. *E. itayensis* Knuth; A; L; EA 477. *E. juruensis* Knuth; A; L; EA 1101. *E. punctata* S. Mori; A; P; CL 815. *E. sp. 2*; A; P; CL 977. *E. sp. nov. 1*; A; P; CL-1671. *E. tessmannii* Knuth; A; P; CL 996; CL-1269. *Grias sp. 1*; A; L; CL 1535. *Gustavia aff. augusta* L.; A; L; EA 592. *G. poeppigiana* Berg; A; L; EA 479.

**LINACEAE:** *Roucheria humiriifolia* Planchon; A; P; EA 1120. *R. punctata* (Ducke) Ducke; A; P; CL 1323.

**LOGANIACEAE:** *Potalia amara* Aublet; T; P; CL 805. *Strychnos aff. solerederi* Gilg; SL; P; CL 453. *S. cf. erichsonii* Schomburgk ex Progel; SL; L; EA 229. *S. medeola* Sagot. & Prog.; SL; P; CL 675. *S. sp. 1*; SL; L; CL 1577. *S. subcordata* Spruce ex Bentham; SL; P; EA 1167.

**LYTHRACEAE:** *Adenaria floribunda* H. B. K.; T; L; EA 119.

**MALPIGHIACEAE:** *Byrsonima arthropoda* Adr. Jussieu; A; L; CL 1529. *B. sp. 1*; A; P; CL 1436. *Diplopterys?* sp. 1; SL; P; CL 226. *Hiraea sp. 1*; SL; L; EA 329. *H. sp. 2*; SL; P; CL 554. Malpighiaceae sp. 1; A; P; CL 318. *M. sp. 2*; SL; P; CL 343. *M. sp. 3*; SL; P; EA 1160. *Mascagnia aff. macrodisca* (Triana & Planchon) Niedenzu; SL; L; EA 300. *M. cf. ovatifolia* (H. B. K.) Grisebach; SL; P; CL 1273. *Mascagnia?* sp. 1; SL; L; EA 37. *M. sp. 2*; SL; L; EA 1238. *Stigmaphyllon?* sp. 1; SL; L; P; CL 345.

**MARANTACEAE:** *Calathea lanata* Petersen; H; L; CL 1604; CL 1607. *C. sp. 1*; H; L; EA 611. *Ischnosiphon cf. arouma* (Aublet) Koernicke; SH; L; EA 247. *Maranta sp. 1*; H; P; CL 153. Marantaceae sp. 1; H; P; CL 573. *M. sp. 2*; H; P; EA A1095. *M. sp. 3*; H; P; EA 1105. *Monotagma sp. 1*; H; P; CL 362.

**MARCGRAVIACEAE:** *Marcgravia sp. 1*; SL; P; CL 662. *M. sp. 2*; SL; P; CL 197. *M. sp. 3*; SL; L; CL 1555. *M. sp. 4*; SL; L; EA 1104. *Norantea guianensis* Aublet; SL; P; CL 1043. *Souroubea cf. guianensis* Aublet; SL; P; CL 1397.

**MELASTOMATACEAE:** *Adelobotrys cf. spruceana* Cogniaux; SH; L; CL 1594. *Adelobotrys?* sp. 1; SH; P; CL 1338. *Clidemia bernardii* Wurdack; T; P; CL 781. *Graffenrieda patens* Triana; SL; P; CL 782; CL 844. *Graffenrieda?* sp. 1; SL; P; CL 580. *Leandra candelabrum* (J. F. Macbride) Wurdack; SH; P; CL 567. *L. glandulifera* (Triana) Cogniaux;

T; P; CL 791. *L. rhodopogon* (DC.) Cogniaux; T; P; CL 851. *Maieta* cf. *poepigii* C. Martius ex Cogniaux; H; P; CL-845. Melastomataceae sp. 1; A; P; EA 1180. *M.* sp. 2; A; P; CL 450. *M.* sp. 3; SH; P; CL 653. *Miconia* aff. *aplostachya* (Bonpland) DC.; T; P; CL 574. *M.* aff. *centrodesma* Naudin; A; P; CL 385. *M.* aff. *minutiflora* (Bonpland) DC.; A; P; EA 1153. *M. affinis* DC.; T; L; EA 518. *M. biglandulosa* Gleason; A; P; CL 949. *M. carassana* Cogniaux; T; P; CL 372. *M.* cf. *longifolia* (Aublet) DC.; T; L; EA 98. *M.* cf. *splendens* (Swartz) Grisebach; A; P; CL 1220. *M. eleagnoides* Cogniaux; A; L; P; EA 395. *M. phanerostila* Pilger; A; P; CL 887. *M. poepigii* Triana; A; P; EA 834. *M. serrulata* (DC.) Naudin; A; L; CL 1576. *M.* sp. 1; SH; P; CL 479. *M.* sp. 2; T; P; CL 635. *M.* sp. 3; A; P; CL 998. *M.* sp. 4; T; P; CL 481. *M.* sp. Sect. *Laceraria*; T; P; CL 795. *Miconia?* *Clidemia?*; SH; P; EA 1060. *Miconia?* sp. 2; A; P; EA 1123. *M.* sp. 3; T; L; EA 591. *Mouriri* aff. *myrtifolia* Spruce ex Triana; A; L; EA 735. *M.* aff. *nigra* (DC.) Morley; A; P; EA 894. *M.* aff. *vernica* Naudin; A; P; EA 59. *M. cauliflora* C. Martius ex DC.; A; P; CL 1363. *M.* sp. 2; A; L; EA 117. *M.* sp. 4; A; L; EA A541. *Myrmidone macrosperma* (C. Martius) C. Martius; T; P; CL-335; CL 690. *Tococa* sp. 1; T; P; CL 859. *T.* sp. 2; T; P; CL 668.

**MELIACEAE:** *Cedrela odorata* L.; A; L; EA 88. *Guarea* cf. *pubescens* (Richard) Adr. Jussieu.; A; P; EA 1057. *G. grandiflora* DC.; A; L; EA 81. *G. kunthiana* Adr. Jussieu; A; L; CL 1541. *G. macrophylla* M. Vahl; A; L; P; EA 105. *G. purusana* C. DC.; A; L; CL 1610. *G.* sp. 1; A; P; CL 770. *G. trunciflora* C. DC.; A; P; EA 784. *Trichilia* cf. *purusana* C. DC.; A; L; EA 332. *T. micrantha* Benthams; A; P; EA 1116. *T. quadrijuga* Kunth; A; L; EA 495. *T.* sp. 1; A; L; CL 1539. *T.* sp. 2; A; P; EA 137. *T.* sp. 3; A; L; EA 302. *T.* sp. 4; A; L; EA 28. *T.* sp. 5; A; L; EA 669.

**MENDONCIACEAE:** *Mendoncia* sp. 1; SL; P; CL 888.

**MENISPERMACEAE:** *Abuta grandifolia* (C. Martius) Sandwith; SL; P; CL 1409. *A. imene* (C. Martius) Eichler; SL; P; CL 1342. *A. obovata* Diels; SL; P; CL 1275. *A. pahni* (C. Martius) Krukoff & Barneby; SL; L; P; CL 1391. *Abuta?* sp. 1; SL; P; CL 167. *A.* sp. 2; SL; L; EA 575. *A.* sp. 3; SL; P; CL 1299. *A.* sp. 4; SL; P; CL 92. Menispermaceae sp. 1; SL; P; CL 1161. *Odontocarya* sp. Sect. *Somphoxylon*; SL; P; CL 837. *Sciadotecnia* cf. *toxifera* Krukoff & A. C. Smith; SL; L; EA 77.

*Telitoxicum krukovii* Moldenke; SL; P; CL 725. *T. sp. 1*; SL; P; CL 546. *T. sp. 2*; SL; P; EA 1136.

**MIMOSACEAE:** *Abarema sp. 1*; A; P; CL 1361. *A. sp. 2*; A; P; EA 145. *Acacia cf. altiscandens* Ducke; SL; L; EA 536. *Inga aff. punctata* Willdenow; A; L; EA 439. *I. aff. ruizana* G. Don.; A; P; CL 1411. *I. cf. brachyrachis* Harms /*cf. capitata* Desvaux; A; P; CL 1420. *I. cf. cordatoalata* Ducke; A; L; CL 1574. *I. cf. gracifolia* Ducke; A; P; EA 1043. *I. cf. peltadenia* Harms; A; P; EA 802. *I. cf. pezizifera* Benthams; A; P; CL 1287. *I. cf. pruriensis* Poeppig; A; P; CL 930. *I. sp. 01*; A; P; EA 194. *I. sp. 02*; A; P; EA 1125. *I. sp. 03*; A; P; CL 1438. *I. sp. 04*; A; L; EA 381. *I. sp. 05*; A; L; CL 1639. *I. sp. 06*; A; P; EA 1086. *I. sp. 07*; A; L; EA 281. *I. sp. 08*; A; P; CL 193. *I. sp. 09*; A; L; EA 640. *I. sp. 10*; A; L; CL 1640. *I. sp. 11*; A; L; EA 397. *I. sp. 12*; A; L; EA 512. *I. sp. 13*; A; L; CL 1629. *I. sp. 14*; A; P; CL 1445. *I. sp. 15*; A; L; EA 457. *I. stipulacea* G. Don; A; L; EA 526. *Marmaroxylon racemosum* (Ducke) Killip; A; P; EA 1121. *Parkia aff. reticulata* Ducke; A; P; CL 1673. *P. cf. panurensis* Benthams; A; P; CL 604. *P. igneiflora* Ducke; A; P; EA 1133. *P. multijuga* Benthams; A; L; EA 383. *Pithecellobium auriculatum* Benthams; A; P; CL 1498. *P. claviflorum* Benthams; A; P; CL 842. *P. sp. 1*; A; P; EA 785. *P. sp. nov. aff. P. leucophyllum* Benth.; A; P; CL 1160. *Zygia inequalis* (Humboldt & Bonpland ex Willdenow) Pittier; A; L; EA 627. *Z. latifolia* (L.) Fawcett & Rendle; A; L; EA 476.

**MONIMIACEAE:** *Mollinedia sp. 1*; A; L; EA 114. *M. sp. 2*; SL; P; CL 398; CL 777. *M. sp. 3*; T; L; EA 140. *Siparuna aff. guianensis* Aublet; A; P; CL 1427.

**MORACEAE:** *Brosimum cf. alicastrum* Swartz ssp. *bolivarense* (Pittier) C. C. Berg; A; L; EA 421. *B. guianense* (Aublet) Huber; A; L; EA 109. *B. lactescens* (S. Moore) C. C. Berg; A; L; EA 95. *B. parinarioides* Ducke ssp. *parinarioides*; A; P; CL 710. *B. rubescens* Taubert; A; P; CL 1251. *B. sp. 1*; A; P; CL 550. *B. utile* (H. B. K.) Pittier; A; P; CL 1088. *Clarisia cf. ilicifolia* (Spreng.) Lany & Ross.; A; L; EA 459. *Ficus cf. maxima* Miller; SZL; L; EA 430. *F. cf. pertusa* L. f.; SZL; L; EA 508. *F. cf. yoponensis* Desvaux; SZL; L; EA 462. *F. sp. 1*; A; L; EA 1246. *Helicostylis cf. pedunculata*; A; P; CL 594. *H. heterotricha* Ducke; A; P; CL 1186. *H. scabra* (J. F. Macbride) C. C. Berg; A; P; CL 1258. *H. tomentosa* (Poeppig & Endlicher) J. F. Macbride; A; P; EA 53. *Naucleopsis cf. caloneura*

(Huber) Ducke; A; L, P; EA 849. *N. cf. glabra* Spruce ex Pittier; A; L; EA 211. *Perebea* aff. *longepedunculata* C. C. Berg.; A; L, P; EA 339. *P. cf. xanthochyma* Karsten; A; L; EA 417. *Pseudolmedia cf. laevis* (R. & P.) J. F. Macbride; A; P; EA 404. *P. laevigata* Trécul; A; P; CL 1326. *Sorocea hirtella* Mildbraed; A; L, P; EA 120. *S. muriculata* Miquel; A; L, P; CL 1679.

**MYRISTICACEAE:** *Compsonaura capitellata* (A. DC.) Warburg; A; P; CL 909. *C. cf. ulei* Warburg; A; L, P; CL 947. *Iryanthera crassifolia* A. C. Smith; A; L; CL 1542. *I. elliptica* Ducke; A; P; CL 1069. *I. juruensis* Warburg; A; L, P; CL 1550. *I. paraensis* Huber; A; P; CL 1693. *I. sp. 1*; A; L; EA 1102. *I. tricornis* Ducke; A; P; CL 1229. *I. ulei* Warburg; A; P; CL 1537. *Osteophloeum platyspermum* (A. DC.) Warburg; A; P; CL 1042. *Virola* aff. *multinervia* Ducke; A; P; EA 125. *V. calophylla* Warburg; A; L, P; EA 668. *V. calophylloidea* Markgraf; A; P; CL 1194. *V. cf. obovata* Ducke; A; L; EA 354. *V. cf. surinamensis* (Rolander) Warburg; A; L; EA 661. *V. cuspidata* (Benth.) Warburg; A; L, P; CL 355. *V. duckei* A. C. Smith; A; L; EA 418. *V. elongata* (Benth.) Warb.; A; P; CL 1181. *V. lorentensis* A. C. Smith; A; L; EA 642. *V. marlenei* W. Rodrigues; T; P; CL 800. *V. pavonis* (A. DC.) A. C. Smith; A; P; EA 102. *V. sp. 2*; A; P; CL 178. *V. sp. 3*; A; P; CL 206.

**MYRSINACEAE:** *Cybianthus amaralae* Pipoly, sp. nov. ined.; SL; P; CL 119. *C. gigantophyllus* Pipoly; A; P; CL 84. *C. guianensis* (A. DC.) Miquel ssp. *pseudoincareus*; A; P; CL 1680; EA 1119. *C. longifolius* Miquel; T; L; EA 684. *C. poeppigii* Mez; T; L; EA 230. *C. resinusus* Mez s.l.; A; L; EA 521. Myrsinaceae sp. 1; SL; P; CL 159. *Stylogyne lasseri* (Lundell) Pipoly; A; L; EA 580. *S. sp. 1*; A; L; EA 276.

**MYRTACEAE:** *Calyptranthes* aff. *bipennis* O. Berg.; A; L; EA 369. *C. aff. lanceolata* O. Berg.; A; L; EA 490. *C. aff. paniculata* R. & P.; A; L; CL 1627. *C. aff. speciosa* Sagot; A; L; EA 665. *Calyptranthes?* sp. 1; A; L; EA 334. *Eugenia* aff. *feijoi* O. Berg.; A; L; EA 73; EA 433. *E. cf. lambertiana* DC.; A; L, P; EA 520. *E. sp. 1*; A; L; EA 27. *Eugenia?* sp. 2; A; L; EA 761. *E. sp. 3*; A; L; EA 1232. *Marlierea* aff. *spruceana* O. Berg.; A; L; EA 679. *Myrcia* cf. *magna* Legraud; A; L; EA 432. *Myrcia?* sp. 2; A; L; EA 310. *M. sp. 3*; A; P; CL 1477. *M. sp. 6*; A; L; EA 271. Myrtaceae sp. 2; A; L; EA 213. *M. sp. 3*; A; P; EA 1014. *M. sp. 4*; A; P; CL 32. *M. sp. 5*; A; L; EA 909. *Psidium* sp. 1; T; L; EA 118.

**NYCTAGINACEAE:** *Guapira* sp. 1; A; L; EA 619. *G.* sp. 2; A; L; CL 1652. *G.* sp. 3; T; L; CL 1560. *G.* sp. 4; A; L, P; EA 85. *G.* sp. 5; A; P; EA 143. *G.* sp. 6; A; P; CL 489. *Neea* aff. *divaricata* Poeppig & Endlicher; A; L, P; CL 1520. *N.* aff. *floribunda* Poeppig & Endlicher; A; L; CL 1532. *N.* sp. 1; A; P; EA 152. *N.* sp. 2; A; P; CL 1196. *N.* sp. 3; A; P; EA 1054. *N.* sp. 4; A; P; EA 127. *N.* sp. 5; A; P; CL 1655. *N.* sp. 6; A; P; CL 87. *N. virens* Poeppig ex Heimerl; T; L; CL 1645.

**OCHNACEAE:** *Ouratea* aff. *polyantha* (Triana & Planchon) Engler; A; L; EA 711. *O.* aff. *weberbaueri* Sleumer; A; P; CL 1483. *O.* cf. *amplifolia* Sleumer; A; P; CL 351. *O.* cf. *pendula* Engler; A; L; EA 513.

**OLACACEAE:** *Dulacia macrophylla* (Bentham) O. Kuntze; A; P; EA 7. *Heisteria barbata* Cuatrecasas; A; P; CL 53. *H.* cf. *acuminata* (Humboldt & Bonpland) Engler; A; L; EA 299. *H.* cf. *densifrons* Engler; A; L; EA 463. *H. duckei* Sleumer; A; P; EA 904. *H. latifolia* Standley; A; L; EA 35. *H.* sp. 1; SL; P; EA 1161. *Minquartia guianensis* Aublet; A; L, P; EA 492.

**ORCHIDACEAE:** *Elleanthus* sp. 1; H; P; CL 660.

**PASSIFLORACEAE:** *Dilkea acuminata* Masters; SL; L; EA 759. *D. parviflora* Killip; SL; P; CL 1176. *Passiflora quadriglandulosa* Rodschied; SL; L; EA 808. *P. spinosa* (Poeppig & Endlicher) Masters; SL; L; EA 618. *P. variolata* Poeppig & Endlicher; SL; P; CL 891.

**PIPERACEAE:** *Peperomia* sp. 1; SH; L; CL 1526. *Piper* cf. *javariense* Yuncker; T; L; EA 616. *P. cililimum* Yuncker; T; P; CL 272. *P. curvistilum* C. DC.; T; P; EA 1055. *P. hispidum* Swartz s.l.; T; L; EA 567. *P. nigribaccum* C. DC.; T; P; CL 1443. *P. nigrispicum* C. DC.; SH; P; EA 1137. *P.* sp. 1; T; P; CL 387. *P.* sp. 2; T; P; EA 1091. *P. subfalcatum* Yuncker; T; P; CL 77.

**POACEAE:** *Pariana* cf. *stenolema* Tutin; H; L, P; CL 1557. *P.* sp. 1; H; P; CL 521. *Pharus latifolius* L.; H; L; EA 691.

**POLYGALACEAE:** *Moutabea* aff. *guianensis* Aubl.; SL; L, P; EA 664. *M.* sp. 1; SL; P; CL 1204. *Securidaca?* sp. 1; SL; L; EA 273.

**POLYGONACEAE:** *Coccoloba* cf. *mollis* Casaretto; A; L; EA 494. *C. lucidula* Bentham; SL; L; EA 1208. *C.* sp. 1; SL; L; EA 223. *C.* sp. 2; SL; L; EA 254. *Triplaris* cf. *pyramidalis* Jacquin; A; L; EA 289.

**POLYPODIACEAE:** *Campyloneurum repens* Aublet; FSH; L; EA 582.

**QUIINACEAE:** *Lacunaria* sp. 1; T; P; EA 1096. *Quiina leptoclada* Tulasne; A; P; CL 1398. *Q. longifolia* Spruce; A; P; EA 1090. *Q. macrophylla* Tulasne; A; L; EA 29.

**RANUNCULACEAE:** Ranunculaceae? sp. 1; SH; L; EA 816.

**RHAMNACEAE:** *Ampelozizyphus amazonicus* Ducke; SL; P; CL 1317. Rhamnaceae? sp. 1; A; P; CL 333. *R.* sp. 2; SL; L; EA 769.

**RHIZOPHORACEAE:** *Anisophyllea* sp. 1; A; P; CL 1012. *Sterigmapetalum* cf. *colombianum* Monachino; A; P; CL 1018; CL-1270. *S.* cf. *obovatum* Kuhlmann; A; P; EA 879.

**RUBIACEAE:** *Alibertia* cf. *hadrantha* Standley; A; L; EA 391. *A.* cf. *stenantha* Standley; A; L; EA 641. *A. hispida* Ducke; A; P; CL 1106. *A. latifolia* (Bentham) Schumann; T; L; CL 1609. *A.* sp. 1; A; L; EA 709. *Amaioua* sp. 1; A; P; CL 1053. *Bathysa* cf. *obovata* Schumann ex Standley; A; L; EA 24. *Borojoa* cf. *duckei* Steyerl.; A; P; CL 966. *B. sorbilis* (Ducke) Cuatr.; A; L; EA 104. *Calycophyllum spruceanum* (Bentham) Hooker f. ex Schumann; A; P; CL A1. *Cephaelis* aff. *iodotricha* (Muell. Arg.) Standley; H; P; CL 797. *Chiococca* sp. 1; A; L; EA 908. *Chomelia* cf. *barbellata* Standley; SL; L; EA 507. *Coussarea brevicaulis* Krause; A; L; CL 1581. *C. flava* Poeppig; T; P; CL 956. *C. hirticalyx* Standley; A; L; EA 10. *C. macrophylla* Muell. Arg.; A; L; CL 1572. *C. paniculata* (M. Vahl) Standley; A; L; P; CL 1621. *C.* sp. 1; T; P; EA 133. *C.* sp. 2; T; L; EA 12. *Duroia hirsuta* (Poeppig) Schumann; A; L; P; CL 1602. *D. saccifera* (C. Martius ex Roemer & Schultes) Hooker f. ex Schumann; A; P; CL 1209. *D.* sp. 1; T; P; EA 1051. *Elaeagia* cf. *maguirei* Standl.; A; P; CL 620. *Elaeagia?* sp. 1; A; P; CL 1513. *Faramea* aff. *sessilifolia* (H. B. K.) DC.; A; L; CL 1614. *F. capillipes* Muell. Arg.; T; L; CL 1565; EA-90. *F. multiflora* A. Richard; A; L; CL 1562; EA-79. *F.* sp. 1; T; L; EA 362. *F.* sp. 2; T; P; EA 1048. *F.* sp. 3; A; L; EA 471. *Faramea?* sp. 4; T; L; CL 1624. *Ferdinandusa chlorantha* (Weddell) Standley; A; P; CL 1100. *Isertia rosea* Spruce ex Schumann; A; L; CL 1591. *Ixora* cf. *ulei* Krause; T; L; EA 577. *Ladenbergia amazonensis* Ducke; A; P; CL 890. *Pagamea* cf. *coriacea* Spruce & Bentham; A; P; CL 1306. *P.* cf. *macrophylla* Spruce & Bentham; A; P; EA 65. *P.* sp. 1; T; L; EA 809. *Palicourea corymbifera* (Muell. Arg.) Standley; T; P; CL 1025. *P.* sp. 1; T; P; CL 374. *Posoqueria* sp. 1; A; L; EA 384. *Psychotria borjensis* H. B. K.; T; L; CL 1617. *P. campyloneura* Muell. Arg.; T; L; CL



1635. *P. cf. poeppigiana* Muell. Arg.; T; L, P; CL 1524. *P. cf. prunifolia* (H. B. K.) Steyermark; T; L; EA 767. *P. loretensis* Standley; T; L; EA-614. *P. podocephala* (Muell. Arg.) Standley; T; P; CL 1685. *P. sp. 1*; SH; P; CL 659. *P. stenostachya* Standley; T; P; CL 337; CL 924. *Remijia amazonica* Schumann; T; P; CL 828. Rubiaceae sp. 1; A; P; EA 1009. R. sp. 2; T; L; EA 200. R. sp. 3; A; P; EA 1157. R. sp. 4; T; P; CL 736. *Rudgea cornifolia* (Roemer & Schultes) Standley; T; L; EA 612. *R. duidae* (Standley) Steyermark; T; P; CL 610; CL-946. *R. loretensis* Standley; T; L; EA 682. *R. sessiliflora* Standley; T; L; CL 1593. R. sp. 1; T; P; CL 180. R. sp. 2; T; P; CL 619. *Simira rubescens* (Benth) Bremekamp ex Steyermark; A; L; EA 910. *Warszewiczia coccinea* (M. Vahl) Klotzsch; A; L; EA 390. *W. schwackei* Schumann; A; P; EA 901.

**RUTACEAE:** Rutaceae? sp. 1; A; L; EA 540. R. sp. 2; T; L; EA 315.

**SAPINDACEAE:** *Cupania hispida* Radlkofer; A; P; EA 50. C. sp. 1; A; L; EA 485. *Enourea capreolata* Aublet; SL; L, P; EA 290. *Matayba cf. elegans* Radlkofer; A; L; EA 408. *M. purgans* (Poeppig) Radlkofer; A; P; EA 124. *Paullinia acutangula* (R. & P.) Persoon; SL; L; EA 915. *P. bracteosa* Radlkofer; SL; L; EA 285. *P. cf. caloptera* Radlkofer; SL; P; EA 1039. *P. cf. carpopoda* Lamb; SL; P; CL 115. *P. cf. ternata* Radlkofer; SL; L; EA 559. *P. ingifolia* Richard; SL; P; EA 1140. *P. microneura* Cuatrecasas; SL; L, P; EA 287. *P. rugosa* Bentham ex Radlkofer ssp. *rugosa*; SL; L; EA 813. *P. serjaniifolia* Triana & Planchon; SL; L, P; EA 673. *Paullinia?* sp. 1; SL; P; EA 1070. *Talisia* aff. *grandifolia* Cuatrecasas; A; P; EA 1148. *T. cf. cerasina* (Benth) Radlkofer; A; L, P; CL 702. *T. cf. clathrata* Radlkofer; A; L; EA 260. *T. eximia* Kramer; A; L; CL 1580. *T. guianensis* Aubl.; A; P; CL 1418. *T. sp. 1*; A; P; CL 1243.

**SAPOTACEAE:** *Chrysophyllum* aff. *manaosense* (Aubréville)

Pennington; A; L; EA 469. C. cf. *superbum* Pennington; A; P; CL 999. C. *prieurii* A. DC.; A; P; CL 1152. C. *sanguinolentum* (Pierre) Baehni; A; P; CL 958. *Ecclinusa lanceolata* (C. Martius & Eichler) Pierre; A; L; EA 496. *Manilkara bidentata* (A. DC.) Chevalier; A; L; EA 733. M. sp. 2; A; P; CL 300. *Micropholis cf. cylindrocarpa* (Poeppig) Pierre; A; P; CL 407. M. cf. *egensis* (A. DC.) Pierre; A; L; EA 449. M. cf. *madeirensis* (Baehni) Aubréville; A; P; CL 1015. M. cf. *melinoniana* Pierre; A; P; EA 867. M. *guyanensis* (A. DC.) Pierre; A; P; CL 1175. M. *guyanensis* (A. DC.) Pierre ssp. *duckeana* (Baehni) Pennington; A; P; CL 923; CL 1060; CL 1283. M.

*venulosa* (C. Martius & Eichler) Pierre; A; L; EA 629. *Pouteria* Sect. *Franchetella* sp. 1; A; P; CL 766. *P.* Sect. *Rivicoa* sp. 1; A; P; CL 1155. *P.* aff. *laviegata* (C. Martius) Radlkofer; A; L; EA 666. *P.* aff. *ucuqui* Pires & Schultes; A; L, P; EA 652. *P. baehniana* Monachino; A; L; EA 435. *P. campanulata* Baehni; A; P; EA 896. *P.* cf. *cladantha* Sandwith; A; L; EA 428. *P.* cf. *maguirei* (Aubréville) Pennington; A; P; CL-1668. *P.* cf. *multiflora* (A. DC.) Eyma; A; P; CL 726. *P.* cf. *oblanceolata* Pires; A; P; CL 237. *P.* cf. *trilocularis* Cronquist; A; P; EA 1118. *P.* cf. *williamii* (Aubréville & Pellegrin) Pennington; A; P; EA 864. *P. cuspidata* (A. DC.) Baehni; A; L, P; EA 113. *P. guianensis* Aublet; A; P; EA 852. *P.* sp. 01; A; L; EA 708. *P.* sp. 02; A; P; EA 122. *P.* sp. 03; A; P; EA 1007. *P.* sp. 04; A; P; CL 721. *P.* sp. 05; A; L; EA 15. *P.* sp. 06; A; P; EA 1111. *P.* sp. 07; A; P; EA 149. *P.* sp. 08; A; P; CL 509. *P.* sp. 09; A; P; CL 340. *P.* sp. 10; A; P; CL 173. *P.* sp. 11; A; P; CL 1480. *P.* sp. 12; A; P; CL 495. *P.* sp. 13; A; P; CL 1473. *P.* sp. 14; A; P; CL 916. *P.* sp. 15; A; P; EA 62. *P.* sp. 16; A; P; EA 835. *P.* sp. 17; A; P; EA 1113. *P.* sp. 19; A; P; EA 1147. *P.* sp. 20; A; P; EA 847. *P.* sp. 21; A; L; EA 659. *P.* sp. 22; A; L; EA 401. *P.* sp. 23; A; L; CL 1628. *P.* sp. 24; A; P; EA 1029. *P.* sp. 25; A; P; CL 1003. *P.* sp. 26; A; P; EA 183. *P.* sp. nov. 1; A; P; CL 1017. *P.* sp. nov. 2; A; P; EA 862. *P. torta* (C. Martius) Radlkofer; A; L, P; CL 981; EA 386. *P. vernicosa* Pennington; A; P; CL 1335. *Pradosia cochlearia* (Lecom.) Pennington ssp. *praealta* (Ducke) Pennington; A; P; CL 1272. Sapotaceae sp. 1; A; L; EA 699. *S.* sp. 2; A; P; CL 584. *S.* sp. 3; A; P; EA 1035.

**SIMAROUBACEAE:** *Picramnia* aff. *sellowii* Planchon ssp. *spruceana* (Engler) Pirani; A; P; CL 1598. *P.* sp. 1; T; P; EA 1053. *P.* sp. 2; A; L; CL 1638. *P.* sp. 3; A; P; CL 5. *P.* sp. 4; A; P; CL 561. *P.* sp. nov. aff. *P. caracasana* Engler; A; L; EA 1228. *Simaba* aff. *polyphylla* (Cavalcante) W. Thomas; A; P; CL 590. *S. guianensis* Aubl. ssp. *ecaudata* (Cronquist) Cavalcante; A; P; CL 1293. *Simarouba amara* Aublet; A; L, P; CL 1071.

**SMILACACEAE:** *Smilax aequatorialis* A. DC.; SH; L; EA 650. *S.* sp. 1; SH; L; EA 1236. *S.* sp. 2; SH; L; EA 564. *S.* sp. 3; SH; P; CL 393. *S.* sp. 4; SH; P; EA 1062.

**SOLANACEAE:** *Cestrum?* sp. 1; T; P; CL 288. *Solanum* sp. 1; SH; L; EA 371. *S.* sp. 2; SH; L; EA 693. *S.* sp. 3; SH; L; EA 1226. *Solanum?* *Lycianthes?*; SH; L; EA 250.

**STERCULIACEAE:** *Herrania* cf. *nitida* (Poeppig) R. Schultes; A; L; EA 1201. *Sterculia* aff. *apeibophylla* Ducke; A; L; CL 1613. *S.* aff. *parviflora* (Ducke) E. Taylor; A; L; EA 374. *S.* sp. 1; A; L; EA 475. *Theobroma cacao* L.; A; L; EA 284. *T. obovatum* Klotzsch ex Bernoulli; A; L; CL 1579. *T. subincanum* C. Martius; A; L, P; CL 830.

**STYRACACEAE:** Styracaceae? sp. 1; T; P; CL 130.

**THEOPHRASTACEAE:** *Clavija weberbaueri* Mez; T; L; CL 1592; EA 87.

**TILIACEAE:** *Apeiba aspera* Aublet s.l.; A; L; EA 92. *Luehea cymulosa* Spruce ex Bentham; A; L; EA 911. *Lueheopsis shultesii* Cuatrecasas; A; P; CL 1171. *Mollia lepidota* Spruce ex Bentham; A; L; EA 742.

**TRIGONIACEAE:** Trigonaceae? sp. 1; SL; L; EA 358.

**URTICACEAE:** Urticaceae? sp. 1; SH; P; CL 589. U. sp. 2; SH; L; EA 820.

**VERBENACEAE:** *Vitex* cf. *klugii* Moldenke; A; L; EA 438.

**VIOLACEAE:** *Corynostylis arborea* (L.) S. F. Blake; SL; L; EA 811; EA 817. *Gloeospermum sphaerocarpum* Triana & Planchon; A; L; EA 916. *Leonia cymosa* C. Martius; A; P; CL 1696. *Leonia glycyarpa* Ruiz López & Pavón; A; L; CL 1567. *Rinorea lindeniana* (Tulasne) Kuntze; A; L; EA 725. *R. neglecta* Sandwith; A; L; CL 1612. *R. racemosa* (C. Martius) Kuntze; A; P; CL 871.

**VITACEAE:** *Cissus erosa* Richard; SH; L; EA 288. *C. sicyoides* L.; SH; L; EA 819.

**VOCHYSIACEAE:** *Erisma bicolor* Ducke; A; P; CL 1429. *E.* cf. *splendens* Stafleu; A; P; CL 1368. *E. laurifolium* Warming; A; P; CL 1692. *E.* sp. 1; A; P; CL 1476. *E.* sp. 3; A; P; CL 33. *E.* sp. 4; A; P; CL 1470. *Qualea* aff. *ignens* Warming; A; L; EA 713. *Q. paraensis* Ducke; A; P; CL 1159. *Q.* sp. 1; A; P; EA 1172. *Vochysia* aff. *lomatophylla* Standley; A; P; CL 756. *V.* aff. *punctata* Spruce ex Warming; A; P; EA 1018. *V. angustifolia* Ducke; A; P; CL 1697. *V.* cf. *floribunda* C. Martius; A; P; CL 512. *V.* cf. *pachyantha*; A; P; EA 1028. *V. venulosa* Warming; A; P; CL 1115.

**ZAMIACEAE:** 1164 *Zamia* sp. 1; H; P; CL 510.

### Appendix 3

Índice de valor de importancia (IVI en %) para vegetación con DBH  $\geq$  10 cm, en 1.8 ha en bosques de tierra firme y de várzea. Inventario inicial (1990). HCR: hábito de crecimiento: A: árboles; PAM: palmas arbóreas; SL: lianas; SZL: estranguladoras. NI: densidad relativa (%) del número de individuos. FR: frecuencia relativa (%). W: biomasa aérea seca relativa (%). Se muestran las especies en secuencia alfabética.

Tierra firme, inventario inicial (año 1990).

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
Abarema adenophora (Ducke)						
Barneby & J.W.Grimes	A	2	0.133	0.143	0.039	0.105
Abarema EA-785	A	1	0.066	0.072	0.079	0.072
Abarema leucophylla (Spruce ex Benth.) Barneby & J.W.Grimes	A	9	0.598	0.645	0.462	0.568
Abuta CL-1161	SL	1	0.066	0.072	0.024	0.054
Aiouea CL-1336	A	12	0.798	0.717	0.527	0.681
Alchornea discolor Poepp.	A	3	0.199	0.215	0.307	0.241
Alchornea floribunda (Benth.) Muell. Arg.	A	1	0.066	0.072	0.074	0.071
Amaioua CL-1053	A	1	0.066	0.072	0.010	0.050
Aniba CL-1080	A	1	0.066	0.072	0.057	0.065
Aniba CL-1659	A	1	0.066	0.072	0.026	0.055
Aniba CL-2749	A	1	0.066	0.072	0.012	0.050
Aniba puchury-minor (Mart.) Mez	A	6	0.399	0.430	0.131	0.320
Aniba williamsii O. C. Schmidt	A	1	0.066	0.072	0.012	0.050
Annona excellens R. E. Fries	A	1	0.066	0.072	0.011	0.050
Anthodiscus obovatus Benth.	A	1	0.066	0.072	0.225	0.121
Aspidosperma CL-1001	A	1	0.066	0.072	0.012	0.050
Aspidosperma CL-1277	A	1	0.066	0.072	0.011	0.050
Aspidosperma desmanthum Benth. ex Müll.Arg.	A	1	0.066	0.072	0.010	0.049
Aspidosperma EA-180	A	2	0.133	0.143	0.263	0.180
Aspidosperma excelsum Benth.	A	11	0.731	0.789	4.465	1.995
Aspidosperma schultesii Woodson	A	11	0.731	0.789	0.977	0.832
Beilschmiedia aff. brasiliensis (Kortz.) Kortz.	A	2	0.133	0.143	0.069	0.115
Bignoniaceae NI-1493	SL	1	0.066	0.072	0.029	0.056
Bocageopsis canescens (Spruce ex	A	2	0.133	0.143	0.043	0.106

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
Benth.) R. E. Fries						
Bocageopsis multiflora (Mart.) R.						
E. Fries	A	1	0.066	0.072	0.022	0.053
Brosimum longifolium Ducke	A	1	0.066	0.072	0.021	0.053
Brosimum rubescens Tauber	A	29	1.928	1.864	1.634	1.809
Brosimum utile (Kunth) Pittier	A	16	1.064	1.147	1.176	1.129
Buchenavia parvifolia Ducke	A	1	0.066	0.072	0.039	0.059
Caesalpiniaceae CL-1288	A	9	0.598	0.645	0.488	0.577
Cariniana decandra Ducke	A	11	0.731	0.789	1.750	1.090
Caryocar glabrum (Aubl.) Pers.	A	3	0.199	0.215	0.079	0.164
Caryocar gracile Wittm.	A	10	0.665	0.717	1.318	0.900
Caryodaphnopsis CL-2520	A	1	0.066	0.072	0.181	0.106
Caryodaphnopsis EA-906	A	1	0.066	0.072	0.035	0.058
Casearia oblongifolia Cambess.	A	1	0.066	0.072	0.016	0.052
Casearia singularis Eichler	A	1	0.066	0.072	0.035	0.058
Cecropia membranacea Trécul	A	1	0.066	0.072	0.011	0.050
Chrysobalanaceae EA-827	A	1	0.066	0.072	0.009	0.049
Chrysophyllum prieurii A. DC.	A	1	0.066	0.072	0.022	0.053
Chrysophyllum sanguinolentum (Pierre) Baehni	A	19	1.263	1.362	0.966	1.197
Chrysophyllum superbum T.D.Penn.	A	2	0.133	0.143	0.021	0.099
Clathrotropis macrocarpa Ducke	A	14	0.931	1.004	0.264	0.733
Compsoeura capitellata (A. DC.) Warb.	A	17	1.130	1.147	0.297	0.858
Conceveiba latifolia Benth.	A	1	0.066	0.072	0.014	0.051
Couepia bracteosa Benth.	A	1	0.066	0.072	0.115	0.084
Couepia chrysocalyx (Poepp. & Endl.) Benth. ex Hook. f.	A	2	0.133	0.143	0.072	0.116
Couepia CL-1321	A	7	0.465	0.502	0.652	0.540
Couepia CL-2750	A	1	0.066	0.072	0.133	0.090
Couepia guianensis Aubl.	A	1	0.066	0.072	0.010	0.049
Dacryodes chimatensis Steyerl. & Mag.	A	3	0.199	0.215	0.096	0.170
Dacryodes CL-1166	A	3	0.199	0.215	0.093	0.169
Dacryodes nitens Cuatrec.	A	4	0.266	0.287	0.112	0.222
Dacryodes sclerophylla Cuatrec.	A	4	0.266	0.287	0.068	0.207
Dendrobangia boliviana Rusby	A	2	0.133	0.143	0.108	0.128
Dendropanax tessmannii (Harms) Harms	A	4	0.266	0.287	0.066	0.206
Dicranostyles sericea Gleason	SL	1	0.066	0.072	0.030	0.056

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Diplotropis martiusii</i> Benth.	A	20	1.330	1.219	0.953	1.167
<i>Dipteryx cordata</i> (Ducke) Cowan	A	5	0.332	0.358	0.163	0.285
<i>Dipteryx polyphylla</i> Huber	A	3	0.199	0.215	0.426	0.280
<i>Drypetes</i> CL-2707	A	1	0.066	0.072	0.009	0.049
<i>Duroia saccifera</i> (Mart.ex Roem. & Schult.) Hook.f. ex Schum.	A	3	0.199	0.215	0.038	0.151
<i>Elaeoluma glabrescens</i> (Mart. & Eichler) Aubrév.	A	1	0.066	0.072	0.010	0.049
<i>Endlicheria sericea</i> (Nees) Mez	A	10	0.665	0.717	0.217	0.533
<i>Erisma bicolor</i> Ducke	A	2	0.133	0.143	0.051	0.109
<i>Erisma laurifolium</i> Spruce ex Warm.	A	24	1.596	1.649	1.157	1.467
<i>Erisma splendens</i> Slafleu	A	20	1.330	1.434	2.770	1.844
<i>Erythroxyton</i> CL-1145	A	1	0.066	0.072	0.029	0.056
<i>Eschweilera andina</i> (Rusby) Macbride	A	1	0.066	0.072	0.012	0.050
<i>Eschweilera bracteosa</i> (Poepp. & Berg.) Miers	A	6	0.399	0.358	0.125	0.294
<i>Eschweilera laevis</i> S. A. Mori	A	80	5.319	4.588	3.588	4.498
<i>Eschweilera ovalifolia</i> (DC.) Nied.	A	62	4.122	3.943	2.687	3.584
<i>Eschweilera parvifolia</i> Mart. ex DC.	A	58	3.856	3.799	1.781	3.145
<i>Eschweilera punctata</i> Mori	A	58	3.856	3.369	4.997	4.074
<i>Eschweilera tessmannii</i> R. Knuth	A	1	0.066	0.072	0.028	0.056
Euphorbiaceae NA-1265	A	1	0.066	0.072	0.010	0.049
Fabaceae CL-1121	A	1	0.066	0.072	0.011	0.050
Fabaceae EA-789	A	1	0.066	0.072	0.012	0.050
<i>Ferdinandusa chlorantha</i> (Wedd.) Standl.	A	1	0.066	0.072	0.011	0.050
<i>Guarea trunciflora</i> C. DC.	A	1	0.066	0.072	0.020	0.053
<i>Guatteria foliosa</i> Benth.	A	2	0.133	0.143	0.227	0.168
<i>Guatteria punctulata</i> R. E. Fries	A	3	0.199	0.215	0.116	0.177
<i>Guatteriella tomentosa</i> R. E. Fries	A	2	0.133	0.143	0.023	0.100
<i>Heisteria duckei</i> Sleumer	A	2	0.133	0.143	0.025	0.100
<i>Helicostylis heterotricha</i> Ducke	A	4	0.266	0.287	0.141	0.231
<i>Helicostylis scabra</i> (Macbr.) C. C. Berg	A	6	0.399	0.430	0.200	0.343
<i>Hevea benthamiana</i> Muell. Arg.	A	11	0.731	0.789	0.262	0.594
<i>Hevea guianensis</i> Aublet	A	4	0.266	0.287	0.102	0.218
<i>Hevea pauciflora</i> (Spruce ex Benth.) Muell. Arg.	A	22	1.463	1.434	0.559	1.152

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Hirtella brachystachya</i> Spruce & Hook f.	A	3	0.199	0.215	0.052	0.155
<i>Huberodendron swietenioides</i> (Gleason) Ducke	A	1	0.066	0.072	0.056	0.065
Indet NA-1392	A	1	0.066	0.072	0.013	0.050
Indet NA-953	A	1	0.066	0.072	0.426	0.188
<i>Inga brachyrhachis</i> Harms	A	1	0.066	0.072	0.026	0.055
<i>Inga EA-194</i>	A	2	0.133	0.143	0.045	0.107
<i>Inga gracilior</i> Sprague	A	1	0.066	0.072	0.027	0.055
<i>Inga pezizifera</i> Benth.	A	5	0.332	0.358	0.101	0.264
<i>Iryanthera elliptica</i> Ducke	A	5	0.332	0.358	0.190	0.294
<i>Iryanthera juruensis</i> Warb.	A	1	0.066	0.072	0.009	0.049
<i>Iryanthera polyneura</i> Ducke	A	1	0.066	0.072	0.014	0.051
<i>Iryanthera tricornis</i> Ducke	A	13	0.864	0.932	0.421	0.739
<i>Iryanthera ulei</i> Warb.	A	20	1.330	1.362	0.286	0.993
<i>Jacaranda macrocarpa</i> Bureau & K.Schum. ex K.Schum.	A	9	0.598	0.645	0.091	0.445
<i>Kotchubaea CL-966</i>	A	6	0.399	0.358	0.138	0.298
<i>Lacmellea arborescens</i> (Muell. Arg.) Markgr.	A	2	0.133	0.143	0.038	0.105
<i>Lacmellea CL-1049</i>	A	7	0.465	0.502	0.091	0.353
<i>Lacmellea foxii</i> (Stapf) Markgraf	A	3	0.199	0.215	0.040	0.152
<i>Lacmellea ramosissima</i> (Muell. Arg.) Markgr.	A	1	0.066	0.072	0.012	0.050
<i>Ladenbergia amazonensis</i> Ducke	A	1	0.066	0.072	0.196	0.112
Lauraceae EA-851	A	3	0.199	0.215	0.221	0.212
<i>Licania apetala</i> (E. Meyer) Fritchs	A	12	0.798	0.860	0.322	0.660
<i>Licania canescens</i> Benoist	A	1	0.066	0.072	0.012	0.050
<i>Licania CL-1149</i>	A	4	0.266	0.287	0.269	0.274
<i>Licania CL-1198</i>	A	9	0.598	0.645	0.753	0.665
<i>Licania EA-872</i>	A	1	0.066	0.072	0.010	0.049
<i>Licania heteromorpha</i> Benth.	A	5	0.332	0.358	0.245	0.312
<i>Licania hypoleuca</i> Benth.	A	1	0.066	0.072	0.042	0.060
<i>Licania kunthiana</i> Hook. f.	A	1	0.066	0.072	0.009	0.049
<i>Licania octandra</i> (Hoffmanns. ex Roem. & Schult.) Kuntze	A	1	0.066	0.072	0.010	0.050
<i>Licania reticulata</i> Prance	A	1	0.066	0.072	0.041	0.060
<i>Licaria CL-1310</i>	A	2	0.133	0.143	0.091	0.122
<i>Licaria guianensis</i> Aubl.	A	2	0.133	0.143	0.074	0.117
<i>Lueheopsis shultesii</i> Cuatr.	A	1	0.066	0.072	0.022	0.053
<i>Machaerium CL-1234</i>	A	1	0.066	0.072	0.012	0.050

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Macoubea guianensis</i> Aubl.	A	2	0.133	0.143	0.021	0.099
<i>Malouetia</i> CL-1377	A	2	0.133	0.143	0.065	0.114
<i>Matayba purgans</i> Poepp. & Endlch.	A	1	0.066	0.072	0.090	0.076
<i>Mezilaurus itauba</i> (Meissn.) Taub. & Mez	A	4	0.266	0.287	0.574	0.376
<i>Miconia chrysophylla</i> (Rich.) Urb.	A	1	0.066	0.072	0.032	0.057
<i>Miconia</i> CL-2476	A	1	0.066	0.072	0.031	0.056
<i>Miconia</i> CL-2752	A	1	0.066	0.072	0.012	0.050
<i>Miconia phaeophylla</i> Triana	A	2	0.133	0.143	0.022	0.100
<i>Miconia poeppigii</i> Triana	A	1	0.066	0.072	0.023	0.054
<i>Miconia pubipetala</i> Miq.	A	8	0.532	0.573	0.198	0.434
<i>Micropholis guyanensis</i> (A. DC.) Pierre	A	11	0.731	0.789	0.335	0.618
<i>Micropholis madeirensis</i> (Baehni) Aubr.	A	1	0.066	0.072	0.017	0.052
<i>Micropholis melinoniana</i> Pierre	A	4	0.266	0.287	0.222	0.258
<i>Minuartia guianensis</i> Aublet	A	1	0.066	0.072	0.011	0.050
<i>Monopteryx uauçu</i> Spruce ex Benth.	A	43	2.859	2.007	10.333	5.066
<i>Moronobea coccinea</i> Aubl.	A	2	0.133	0.143	0.042	0.106
<i>Mouriri nigra</i> (DC.) Morley	A	1	0.066	0.072	0.014	0.051
<i>Mouriri vernicosa</i> Naudin	A	3	0.199	0.215	0.191	0.202
<i>Naucleopsis caloneura</i> (Hub.) Ducke	A	1	0.066	0.072	0.011	0.050
<i>Nectandra cuspidata</i> Nees & Mart.	A	1	0.066	0.072	0.028	0.055
<i>Nectandra purpurea</i> (Ruiz & Pav.) Mez	A	13	0.864	0.932	0.242	0.680
<i>Neea</i> CL-1196	A	1	0.066	0.072	0.023	0.054
<i>Neea</i> CL-1289	A	1	0.066	0.072	0.013	0.050
<i>Neea</i> CL-701	A	1	0.066	0.072	0.023	0.054
<i>Neea divaricata</i> Poepp. & Endl.	A	3	0.199	0.215	0.038	0.151
<i>Neea macrophylla</i> Poepp. ex Endl.	A	1	0.066	0.072	0.035	0.058
<i>Ocotea aciphylla</i> (Nees) Mez	A	16	1.064	1.004	0.429	0.832
<i>Ocotea amazonica</i> (Meissn.) Mez	A	3	0.199	0.215	0.279	0.231
<i>Ocotea argyrophylla</i> Ducke	A	1	0.066	0.072	0.013	0.050
<i>Ocotea</i> CL-1259	A	2	0.133	0.143	0.067	0.114
<i>Ocotea</i> CL-1356	A	1	0.066	0.072	0.032	0.057
<i>Ocotea</i> CL-1522	A	5	0.332	0.358	0.190	0.294
<i>Ocotea</i> CL-902	A	1	0.066	0.072	0.009	0.049
<i>Ocotea cymbarum</i> Kunth	A	8	0.532	0.573	0.395	0.500
<i>Ocotea</i> EA-193	A	1	0.066	0.072	0.018	0.052



ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Ocotea floribunda</i> (Sw.) Mez	A	1	0.066	0.072	0.009	0.049
<i>Ocotea myriantha</i> (Meisn.) Mez.	A	6	0.399	0.358	0.540	0.432
<i>Oenocarpus bacaba</i> Mart.	PAM	7	0.465	0.502	0.061	0.343
<i>Oenocarpus bataua</i> Mart.	PAM	24	1.596	1.434	0.271	1.100
<i>Osteophloeum platyspermum</i> (Spruce ex A.DC.) Warb.	A	6	0.399	0.430	0.286	0.372
<i>Pagamea plicata</i> Spruce ex Benth.	A	1	0.066	0.072	0.013	0.050
<i>Parahancornia peruviana</i> Monach.	A	1	0.066	0.072	0.016	0.051
<i>Parkia panurensis</i> Benth. & H.C.Hopkins	A	5	0.332	0.358	0.647	0.446
<i>Parkia reticulata</i> Ducke	A	1	0.066	0.072	0.109	0.082
<i>Picramnia sellowii</i> Planch.	A	2	0.133	0.143	0.292	0.190
<i>Pourouma</i> CL-1455	A	1	0.066	0.072	0.020	0.053
<i>Pouteria arcuata</i> T. D. Penn.	A	1	0.066	0.072	0.255	0.131
<i>Pouteria campanulata</i> Baehni	A	3	0.199	0.215	0.077	0.164
<i>Pouteria</i> CL-1003	A	1	0.066	0.072	0.017	0.052
<i>Pouteria</i> CL-1017	A	1	0.066	0.072	0.746	0.295
<i>Pouteria</i> CL-1070	A	1	0.066	0.072	0.010	0.049
<i>Pouteria</i> CL-1155	A	2	0.133	0.143	0.232	0.169
<i>Pouteria</i> CL-742	A	1	0.066	0.072	0.011	0.050
<i>Pouteria</i> EA-1111	A	1	0.066	0.072	0.012	0.050
<i>Pouteria</i> EA-183	A	2	0.133	0.143	0.034	0.104
<i>Pouteria</i> EA-835	A	2	0.133	0.143	0.029	0.102
<i>Pouteria</i> EA-847	A	7	0.465	0.502	0.183	0.383
<i>Pouteria</i> EA-862	A	6	0.399	0.430	0.377	0.402
<i>Pouteria glauca</i> T.D.Penn.	A	1	0.066	0.072	0.042	0.060
<i>Pouteria guianensis</i> Aubl.	A	6	0.399	0.430	0.487	0.439
<i>Pouteria maguirei</i> (Aubrév.) T.D.Penn.	A	11	0.731	0.717	0.218	0.556
<i>Pouteria trilocularis</i> Cronquist	A	4	0.266	0.287	0.053	0.202
<i>Pouteria ucuqui</i> Pires & Schultes	A	1	0.066	0.072	0.013	0.050
<i>Pouteria vernicosa</i> Pennington	A	4	0.266	0.287	0.314	0.289
<i>Pouteria williamii</i> (Aubrév. & Pelligr.) Penn.	A	26	1.729	1.649	0.467	1.281
<i>Pradosia cochlearia</i> (Lecom.) Penn. ssp. <i>praealta</i> (Ducke) Penn.	A	1	0.066	0.072	0.035	0.058
<i>Protium altsonii</i> Sandw.	A	2	0.133	0.143	0.046	0.107
<i>Protium apiculatum</i> Swart	A	4	0.266	0.287	0.182	0.245
<i>Protium gallosum</i> Daly	A	8	0.532	0.573	0.180	0.428
<i>Protium hebetatum</i> Daly	A	22	1.463	1.362	0.497	1.107
<i>Protium paniculatum</i> Engl.	A	23	1.529	1.577	0.551	1.219

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Protium polybotryum</i> (Turcz.) Engl.	A	2	0.133	0.143	0.032	0.103
<i>Protium rubrum</i> Cuatrec.	A	11	0.731	0.645	0.889	0.755
<i>Protium subserratum</i> (Engl.) Engl.	A	1	0.066	0.072	0.146	0.095
<i>Protium urophyllidium</i> Daly	A	1	0.066	0.072	0.015	0.051
<i>Pseudolmedia laevigata</i> Tréc.	A	13	0.864	0.932	0.285	0.694
<i>Pseudolmedia laevis</i> (R. & P.) Macbr.	A	1	0.066	0.072	0.010	0.049
<i>Pseudomonotes tropenbosii</i> Londoño et al.	A	66	4.388	3.943	16.992	8.441
<i>Qualea EA-1172</i>	A	2	0.133	0.143	0.634	0.304
<i>Qualea paraensis</i> Ducke	A	10	0.665	0.717	1.203	0.862
<i>Remijia pedunculata</i> (H.Karst.) Flueck.	A	5	0.332	0.358	0.099	0.263
<i>Rhodostemonodaphne CL-1300</i>	A	2	0.133	0.143	0.034	0.103
<i>Rhodostemonodaphne EA-198</i>	A	3	0.199	0.215	0.267	0.227
<i>Roucheria columbiana</i> Hallier f.	A	5	0.332	0.358	0.079	0.256
<i>Roucheria humiriifolia</i> (Planch.) Benth.	A	2	0.133	0.143	0.052	0.110
<i>Saccoglottis CL-2454</i>	A	1	0.066	0.072	0.102	0.080
<i>Scleronema micranthum</i> (Ducke) Ducke	A	30	1.995	2.151	2.665	2.270
<i>Scleronema praecox</i> Ducke	A	1	0.066	0.072	0.014	0.051
<i>Senefeldera karsteniana</i> Pax. & Hoffm.	A	12	0.798	0.717	0.144	0.553
<i>Simaba guianensis</i> Aubl.	A	3	0.199	0.215	0.054	0.156
<i>Simarouba amara</i> Aublet	A	1	0.066	0.072	0.190	0.109
<i>Sloanea brevipes</i> Benth.	A	5	0.332	0.287	0.071	0.230
<i>Sloanea CL-1075</i>	A	4	0.266	0.287	0.267	0.273
<i>Sloanea CL-886</i>	A	2	0.133	0.143	0.042	0.106
<i>Sloanea NA-1256</i>	A	1	0.066	0.072	0.224	0.121
<i>Sloanea NA-1423</i>	A	1	0.066	0.072	0.009	0.049
<i>Sloanea NA-427</i>	A	1	0.066	0.072	0.018	0.052
<i>Sloanea NA-635</i>	A	1	0.066	0.072	0.010	0.049
<i>Sloanea obtusa</i> (Splitg.) K. Schum.	A	3	0.199	0.215	0.197	0.204
<i>Sloanea steyermarkii</i> Earle Sm.	A	4	0.266	0.287	0.158	0.237
<i>Sterigmapetalum colombianum</i> Monachino	A	15	0.997	1.075	0.773	0.949
<i>Sterigmapetalum obovatum</i> Kuhlmann	A	16	1.064	1.075	0.766	0.968
<i>Strychnos peckii</i> B.L.Rob.	SL	1	0.066	0.072	0.029	0.056

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Swartzia brachyrachys</i> Harms	A	2	0.133	0.143	0.031	0.103
<i>Swartzia lamellata</i> Ducke	A	2	0.133	0.143	0.218	0.165
<i>Swartzia parvifolia</i> Schery	A	1	0.066	0.072	0.063	0.067
<i>Swartzia schomburgkii</i> Benth.	A	10	0.665	0.717	2.511	1.297
<i>Swartzia vaupesiana</i> R. S. Cowan	A	1	0.066	0.072	0.010	0.049
<i>Tachigali</i> CL-1141	A	11	0.731	0.645	0.883	0.753
<i>Tachigali</i> CL-2734	A	2	0.133	0.072	0.196	0.134
<i>Tachigali</i> CL-918	A	6	0.399	0.430	0.088	0.306
<i>Tachigali paniculata</i> Aubl.	A	6	0.399	0.430	0.688	0.506
<i>Talisia cerasina</i> (Benth.) Radlk.	A	2	0.133	0.143	0.064	0.114
<i>Terminalia brasiliensis</i> Eichl.	A	1	0.066	0.072	0.025	0.054
<i>Terminalia oblonga</i> (R. & P.) Steudel	A	1	0.066	0.072	0.009	0.049
<i>Tovomita</i> CL-829	A	4	0.266	0.287	0.170	0.241
<i>Trattinnickia glaziovii</i> Swart	A	1	0.066	0.072	0.040	0.059
<i>Trichilia micrantha</i> Benth	A	1	0.066	0.072	0.020	0.053
<i>Unonopsis</i> CL-1399	A	1	0.066	0.072	0.017	0.052
<i>Unonopsis guatterioides</i> (A. DC.) R. E. Fries	A	1	0.066	0.072	0.041	0.060
<i>Vantanea peruviana</i> J.F.Macbr.	A	13	0.864	0.789	0.890	0.848
<i>Vantanea spichigeri</i> Gentry	A	5	0.332	0.358	0.298	0.330
<i>Virola calophylla</i> (Spruce) Warb.	A	3	0.199	0.215	0.032	0.149
<i>Virola elongata</i> (Benth.) Warb.	A	17	1.130	1.219	0.258	0.869
<i>Virola multinervia</i> Ducke	A	1	0.066	0.072	0.134	0.091
<i>Virola pavonis</i> (A. DC.) A. C. Smith	A	7	0.465	0.430	0.110	0.335
<i>Vochysia punctata</i> Spruce & Warm.	A	2	0.133	0.143	0.028	0.102
<i>Vochysia venulosa</i> Warm.	A	22	1.463	1.505	1.779	1.582
<i>Warszewiczia schwackei</i> K. Schum.	A	1	0.066	0.072	0.012	0.050
<i>Xylopia calophylla</i> R. E. Fries	A	1	0.066	0.072	0.041	0.060
<i>Xylopia multiflora</i> R. E. Fries	A	2	0.133	0.143	0.189	0.155
<i>Xylopia parvifolia</i> Diels	A	1	0.066	0.072	0.038	0.059
<i>Zygia claviflora</i> (Benth.) Barneby & J.W.Grimes	A	6	0.399	0.358	0.073	0.277
<i>Zygia racemosa</i> (Ducke) Barneby & J.W.Grimes	A	5	0.332	0.358	0.174	0.288
Total general		1504	100	100	100	100

Várzea. inventario inicial (año 1990).

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Alchornea latifolia</i> Sw.	A	2	0.166	0.095	0.076	0.112
<i>Alchornea schomburgkii</i> Klotzsch	A	6	0.497	0.571	0.252	0.440
<i>Alibertia</i> EA-709	A	2	0.166	0.190	0.282	0.213
<i>Alibertia hadrantha</i> Standl.	A	17	1.408	1.429	1.717	1.518
<i>Alibertia stenantha</i> Standl.	A	3	0.249	0.286	0.178	0.237
<i>Anaxagorea dolichocarpa</i> Spr. & Sandw.	A	1	0.083	0.095	0.014	0.064
<i>Andira</i> EA-33	A	3	0.249	0.286	0.857	0.464
<i>Annona dolichophylla</i> R. E. Fries	A	1	0.083	0.095	0.015	0.064
<i>Apeiba aspera</i> Aublet s.l.	A	11	0.911	0.952	2.413	1.426
Árbol NA-268	A	1	0.083	0.095	0.075	0.084
Árbol NA-349-A	A	1	0.083	0.095	0.050	0.076
Árbol NA-394-A	A	1	0.083	0.095	0.027	0.068
<i>Aspidosperma darienense</i> Woodson ex Dwyer	A	7	0.580	0.476	0.672	0.576
<i>Aspidosperma</i> EA-447	A	3	0.249	0.286	0.154	0.230
<i>Aspidosperma</i> EA-83	A	1	0.083	0.095	0.141	0.106
<i>Aspidosperma marcgravianum</i> Woods	A	1	0.083	0.095	0.108	0.095
<i>Astrocaryum aculeatum</i> Meyer	PAM	5	0.414	0.476	0.330	0.407
<i>Astrocaryum sciophilum</i> (Mique) Pulle	PAM	75	6.214	5.238	1.081	4.178
<i>Bauhinia guianensis</i> Aubl.	SL	1	0.083	0.095	0.168	0.115
Bejuco NA-468	SL	4	0.331	0.381	0.243	0.318
<i>Brosimum alicastrum</i> Swart	A	2	0.166	0.190	0.084	0.147
<i>Brosimum guianense</i> (Aubl.) Huber	A	6	0.497	0.571	0.398	0.489
<i>Brosimum lactescens</i> (S. Moore) C. C. Berg	A	1	0.083	0.095	0.046	0.075
<i>Brownea macrophylla</i> Linden ex Mast.	A	170	14.085	9.714	5.231	9.677
<i>Buchenavia amazonia</i> Alwan & Stace	A	1	0.083	0.095	0.024	0.067
Burseraceae EA-427	A	1	0.083	0.095	0.015	0.064
<i>Byrsonima</i> SVE-24	A	1	0.083	0.095	0.054	0.077
<i>Callichlamys latifolia</i> (L. Rich.) K. Schum.	SL	2	0.166	0.190	0.083	0.146
<i>Calyptanthus speciosa</i> Sagot	A	4	0.331	0.381	0.080	0.264
<i>Campsiandra angustifolia</i> Spruce ex Benth.	A	19	1.574	0.667	5.072	2.438
<i>Cecropia ficifolia</i> Warb. ex Snethl.	A	3	0.249	0.286	0.170	0.235
<i>Cedrela odorata</i> L.	A	1	0.083	0.095	0.347	0.175
<i>Chrysophyllum manaosense</i> (Aub.) T.D. Pennington	A	3	0.249	0.286	0.218	0.251

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Compsonera sprucei</i> (A.DC.) Warb.	A	1	0.083	0.095	0.014	0.064
<i>Conceveiba guianensis</i> Aubl.	A	7	0.580	0.667	0.417	0.554
<i>Couepia</i> EA-72	A	6	0.497	0.571	0.865	0.644
<i>Coussapoa villosa</i> Poepp. & Endl.	SZL	1	0.083	0.095	0.019	0.066
<i>Coussarea hirticalyx</i> Standl.	A	1	0.083	0.095	0.024	0.067
<i>Coussarea macrophylla</i> Muell. Arg.	A	8	0.663	0.762	0.154	0.526
<i>Coussarea paniculata</i> (Vahl) Standl.	A	7	0.580	0.476	0.192	0.416
<i>Croton bilocularis</i> J. Murillo	A	1	0.083	0.095	0.139	0.106
<i>Croton cuneatus</i> Klotzch.	A	1	0.083	0.095	0.154	0.111
<i>Cynometra marginata</i> Benth.	A	11	0.911	0.952	1.127	0.997
<i>Dacryodes cuspidata</i> (Cuatrec.) Daly	A	1	0.083	0.095	0.038	0.072
<i>Dendropanax</i> EA-657	SZL	2	0.166	0.190	0.267	0.208
<i>Diospyros peruviana</i> Hiern.	A	3	0.249	0.286	0.095	0.210
<i>Dipteryx nudipes</i> Tul	A	1	0.083	0.095	0.104	0.094
<i>Dolioscarpus dentatus</i> (Aublet) Standley	SL	2	0.166	0.190	0.190	0.182
<i>Drypetes amazonica</i> Ducke	A	7	0.580	0.667	0.180	0.476
<i>Drypetes ampelocerifolia</i> Grández & Vásquez	A	2	0.166	0.190	0.040	0.132
<i>Duguetia odorata</i> (Diels) Macbride	A	6	0.497	0.571	0.196	0.422
<i>Duguetia spixiana</i> Mart.	A	1	0.083	0.095	0.026	0.068
<i>Endlicheria krukovii</i> A. C. Smith	A	7	0.580	0.667	0.237	0.494
<i>Endlicheria williamsii</i> O. C. Schmidt	A	1	0.083	0.095	0.017	0.065
<i>Eschweilera andina</i> (Rusby) Macbride	A	29	2.403	2.667	4.245	3.105
<i>Eschweilera bracteosa</i> (Poepp. & Berg.) Miers	A	2	0.166	0.190	1.627	0.661
<i>Eschweilera itayensis</i> R. Knuth	A	12	0.994	1.048	3.727	1.923
<i>Eugenia</i> EA-433	A	17	1.408	1.524	0.746	1.226
<i>Euterpe precatória</i> Mart.	PAM	37	3.065	2.667	0.508	2.080
<i>Fabaceae</i> EA-625	A	1	0.083	0.095	0.014	0.064
<i>Faramea multiflora</i> A. Rich.	A	1	0.083	0.095	0.024	0.068
<i>Faramea parvibractea</i> Steyerm.	A	5	0.414	0.476	0.193	0.361
<i>Ficus</i> cf. <i>maxima</i> P. Miller	A	1	0.083	0.095	0.025	0.068
<i>Ficus</i> cf. <i>yaponensis</i> Dugand	SZL	1	0.083	0.095	0.026	0.068
<i>Garcinia</i> CL-915	A	1	0.083	0.095	0.014	0.064
<i>Garcinia</i> EA-688	A	8	0.663	0.762	0.469	0.631
<i>Garcinia spruceana</i> (Engler) Hammel	A	1	0.083	0.095	0.033	0.070
<i>Guapira</i> EA-456	A	1	0.083	0.095	0.020	0.066
<i>Guarea grandiflora</i> DC.	A	6	0.497	0.571	0.262	0.443
<i>Guarea purusana</i> C. DC.	A	10	0.829	0.952	0.848	0.876
<i>Guatteria atra</i> Sandw.	A	1	0.083	0.095	0.062	0.080

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Guatteria megalophylla</i> Diels	A	11	0.911	1.048	1.742	1.234
<i>Gustavia poeppigiana</i> Berg	A	1	0.083	0.095	0.018	0.065
<i>Heisteria cf. densifrons</i> Engl.	A	5	0.414	0.476	0.210	0.367
<i>Hirtella davisii</i> Sandw.	A	1	0.083	0.095	0.048	0.075
<i>Hirtella hispidula</i> Miq.	A	1	0.083	0.095	0.025	0.068
<i>Hirtella latifolia</i> Prance	A	1	0.083	0.095	0.018	0.065
<i>Hirtella pilosissima</i> Mart. & Zucc.	A	1	0.083	0.095	0.025	0.068
<i>Hyeronima alchorneoides</i> Allemão	A	28	2.320	2.571	6.431	3.774
<i>Hymenaea oblongifolia</i> Huber	A	1	0.083	0.095	0.031	0.070
<i>Inga EA-381</i>	A	1	0.083	0.095	0.055	0.078
<i>Inga EA-397</i>	A	31	2.568	2.286	2.599	2.484
<i>Inga EA-439</i>	A	3	0.249	0.286	0.058	0.197
<i>Inga EA-457</i>	A	1	0.083	0.095	0.024	0.067
<i>Inga EA-640</i>	A	8	0.663	0.762	0.905	0.776
<i>Inga fastuosa</i> (Jacq.) Willd.	A	2	0.166	0.190	0.047	0.134
<i>Iriartea deltoidea</i> R. & P.	PAM	2	0.166	0.190	0.138	0.165
<i>Iryanthera juruensis</i> Warb.	A	1	0.083	0.095	0.073	0.084
<i>Iryanthera ulei</i> Warb.	A	9	0.746	0.762	0.177	0.562
<i>Isertia rosea</i> Spruce & K. Schum.	A	1	0.083	0.095	0.016	0.065
<i>Klarobelia cauliflora</i> Chatrou	A	1	0.083	0.095	0.033	0.070
<i>Lacmellea gracilis</i> (Muell. Arg.) Markgraf	A	2	0.166	0.190	0.050	0.136
<i>Lauraceae EA-402</i>	A	1	0.083	0.095	0.037	0.072
<i>Leonia crassa</i> L. B. Sm. & A. Fernández	A	3	0.249	0.286	0.181	0.238
<i>Licania arachnoidea</i> Fanshaw & Maguire	A	10	0.829	0.857	0.587	0.758
<i>Licania EA-647</i>	A	4	0.331	0.381	0.228	0.314
<i>Licania EA-654</i>	A	1	0.083	0.095	0.022	0.067
<i>Licania oblongifolia</i> Standl.	A	3	0.249	0.286	0.105	0.213
<i>Licania reticulata</i> Prance	A	2	0.166	0.190	0.159	0.172
<i>Licania triandra</i> Mart. & Hook. f.	A	4	0.331	0.381	0.183	0.299
<i>Licania vaupesana</i> Killip. & Cuatr.	A	1	0.083	0.095	0.031	0.070
<i>Lonchocarpus EA-738</i>	A	1	0.083	0.095	0.069	0.082
<i>Lorostemon bombaciflorum</i> Ducke	A	1	0.083	0.095	0.036	0.071
<i>Mabea occidentalis</i> Benth.	A	1	0.083	0.095	0.018	0.065
<i>Machaerium arboreum</i> Benth.	A	2	0.166	0.190	0.106	0.154
<i>Machaerium EA-727</i>	SL	3	0.249	0.286	0.102	0.212
<i>Machaerium inundatum</i> (Mart.) Ducke	SL	1	0.083	0.095	0.065	0.081
<i>Machaerium paraense</i> Ducke	SL	1	0.083	0.095	0.069	0.082
<i>Macoubea sprucei</i> (Muell. Arg.)	A	7	0.580	0.381	0.244	0.402

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
Markgr.						
<i>Malouetia tamaquarina</i> (Aubl.) A.DC.	A	4	0.331	0.381	0.177	0.296
<i>Manilkara bidentata</i> (A. DC.) Chev.	A	3	0.249	0.286	0.913	0.482
<i>Margaritaria nobilis</i> L. f.	A	13	1.077	1.238	0.657	0.991
<i>Matayba elegans</i> Radlk.	A	20	1.657	1.810	0.960	1.476
<i>Matisia</i> cf. <i>bracteolosa</i> Ducke	A	1	0.083	0.095	0.027	0.068
<i>Miconia eleagnoides</i> Cogn.	A	5	0.414	0.476	0.138	0.343
<i>Micropholis egensis</i> (A. DC.) Pierre	A	2	0.166	0.190	0.239	0.198
<i>Micropholis venulosa</i> (Mart. & Eichl.) Pierre	A	3	0.249	0.286	0.227	0.254
<i>Minuartia guianensis</i> Aublet	A	1	0.083	0.095	0.049	0.076
<i>Mollia lepidota</i> Spruce	A	1	0.083	0.095	0.199	0.126
<i>Mouriri myrtifolia</i> Spruce ex Triana	A	1	0.083	0.095	0.034	0.071
<i>Myrcia</i> cf. <i>magna</i> Legraud	A	8	0.663	0.762	0.162	0.529
<i>Nectandra</i> EA-452	A	2	0.166	0.190	0.243	0.200
<i>Nectandra</i> EA-718	A	1	0.083	0.095	0.019	0.066
<i>Neea divaricata</i> Poepp. & Endl.	A	13	1.077	1.238	2.563	1.626
<i>Neea floribunda</i> Poepp. & Endl.	A	2	0.166	0.190	0.052	0.136
<i>Ocotea amazonica</i> (Meissn.) Mez	A	5	0.414	0.381	0.123	0.306
<i>Ocotea</i> EA-461	A	6	0.497	0.571	0.142	0.404
<i>Ocotea</i> EA-481	A	2	0.166	0.190	0.055	0.137
<i>Omphalea diandra</i> L.	SL	1	0.083	0.095	0.065	0.081
<i>Ormosia</i> EA-748	A	1	0.083	0.095	0.019	0.066
<i>Ouratea kananariensis</i> Sastre	A	2	0.166	0.190	0.030	0.129
<i>Oxandra polyantha</i> R. E. Fries	A	1	0.083	0.095	0.027	0.069
<i>Oxandra xylopioides</i> Diels	A	9	0.746	0.857	0.923	0.842
<i>Pachira insignis</i> (Sw.) Sw. ex Savigny	A	23	1.906	2.095	2.619	2.207
<i>Parkia multijuga</i> Benth.	A	9	0.746	0.857	2.646	1.416
<i>Perebea</i> cf. <i>xanthochyma</i> Karsten	A	2	0.166	0.190	0.061	0.139
<i>Picramnia sellowii</i> Planch.	A	5	0.414	0.381	0.132	0.309
<i>Posoqueria</i> EA-384	A	13	1.077	1.238	0.286	0.867
<i>Pourouma cucura</i> Standley & Cuatr.	A	2	0.166	0.190	0.073	0.143
<i>Pouteria baehniiana</i> Monachino	A	25	2.071	2.095	0.771	1.646
<i>Pouteria cladantha</i> Sandw.	A	3	0.249	0.286	0.133	0.222
<i>Pouteria</i> EA-401	A	4	0.331	0.381	0.184	0.299
<i>Pouteria</i> EA-659	A	1	0.083	0.095	0.068	0.082
<i>Pouteria</i> EA-708	A	1	0.083	0.095	0.206	0.128
<i>Pouteria laviegata</i> (Mart.) Radlk.	A	1	0.083	0.095	0.055	0.078
<i>Pouteria</i> NA-80	A	1	0.083	0.095	0.034	0.071
<i>Pouteria torta</i> (Mart.) Radlk.	A	29	2.403	2.571	1.199	2.058

ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Pouteria ucuqui</i> Pires & Schultes	A	1	0.083	0.095	0.077	0.085
<i>Protium krukovii</i> Swart	A	3	0.249	0.286	0.155	0.230
<i>Protium nodulosum</i> Swart	A	4	0.331	0.381	0.111	0.274
<i>Pseudolmedia laevis</i> (R. & P.) Macbr.	A	9	0.746	0.762	2.645	1.384
<i>Pterocarpus amazonicus</i> Huber	A	3	0.249	0.286	1.279	0.604
<i>Pterocarpus draco</i> L.	A	6	0.497	0.571	0.198	0.422
<i>Pterocarpus</i> EA-648	A	1	0.083	0.095	0.067	0.082
<i>Qualea ingens</i> Warm.	A	6	0.497	0.571	0.733	0.600
<i>Richeria grandis</i> Vahl	A	1	0.083	0.095	0.064	0.081
<i>Rinorea lindeniana</i> (Tulasne) O. Kuntze	A	2	0.166	0.190	0.091	0.149
<i>Rollinia edulis</i> Tr. & Pl.	A	1	0.083	0.095	0.056	0.078
<i>Salacia</i> EA-752	SL	1	0.083	0.095	0.036	0.071
<i>Salacia impressifolia</i> A. C. Smith	A	3	0.249	0.286	0.055	0.196
<i>Sciadotecnia toxifera</i> Kruk & Sm.	SL	1	0.083	0.095	0.041	0.073
<i>Simarouba amara</i> Aublet	A	4	0.331	0.381	1.165	0.626
<i>Sloanea parviflora</i> Planch. & Benth.	A	8	0.663	0.762	0.431	0.618
<i>Sorocea hirtella</i> Mildbr.	A	2	0.166	0.190	0.033	0.130
<i>Spondias</i> EA-756	A	1	0.083	0.095	0.107	0.095
<i>Sterculia apeibophylla</i> Ducke	A	13	1.077	1.238	4.779	2.365
<i>Sterculia</i> EA-476	A	6	0.497	0.476	0.365	0.446
<i>Sterigmatopetalum colombianum</i>	A	6	0.497	0.571	0.148	0.406
Monachino						
<i>Swartzia cardiosperma</i> Spruce & Benth.	A	4	0.331	0.381	0.190	0.301
<i>Swartzia laevis</i> Amsh.	A	2	0.166	0.190	0.048	0.135
<i>Swartzia racemosa</i> Benth.	A	17	1.408	1.429	1.991	1.610
<i>Symphonia globulifera</i> L. f.	A	1	0.083	0.095	3.126	1.101
<i>Tapirira retusa</i> Ducke	A	3	0.249	0.286	0.296	0.277
<i>Tapura amazonica</i> Poepp.	A	1	0.083	0.095	0.024	0.067
<i>Tapura capitulifera</i> Spruce ex Baill.	A	1	0.083	0.095	0.225	0.134
<i>Taralea opositifolia</i> Aubl.	A	1	0.083	0.095	0.042	0.073
<i>Terminalia</i> EA-635	A	5	0.414	0.476	1.674	0.855
<i>Theobroma obovatum</i> Klotzsch & Bernoulli	A	12	0.994	1.143	0.336	0.824
<i>Theobroma subincanum</i> Martius	A	4	0.331	0.286	0.279	0.299
<i>Tovomita pyrifolia</i> A. C. Smith	A	1	0.083	0.095	0.015	0.065
<i>Trichilia</i> EA-669	A	1	0.083	0.095	0.017	0.065
<i>Triplaris americana</i> L.	A	2	0.166	0.190	0.048	0.135
<i>Vatairea guianensis</i> Aubl.	A	11	0.911	1.048	1.795	1.251
<i>Virola calophylla</i> Warb.	A	19	1.574	1.524	1.897	1.665



ESPECIE	HCR	NI	NI%	FR%	W%	IVI%
<i>Virola duckei</i> A. C. Smith	A	2	0.166	0.190	0.135	0.164
<i>Virola loretensis</i> A. C. Smith	A	15	1.243	1.333	0.784	1.120
<i>Virola surinamensis</i> Warb.	A	1	0.083	0.095	0.523	0.234
<i>Vismia macrophylla</i> Kunth	A	8	0.663	0.667	0.541	0.623
<i>Vitex klugii</i> Moldenke	A	1	0.083	0.095	1.058	0.412
<i>Warszewiczia coccinea</i> (Vahl) Kl.	A	14	1.160	1.238	0.290	0.896
<i>Xylopia excellens</i> R. E. Fries	A	6	0.497	0.571	0.165	0.411
<i>Zygia inequalis</i> (Willd.) Pitt.	A	6	0.497	0.571	0.845	0.638
<i>Zygia latifolia</i> (L.) Fawc. & Rendle	A	32	2.651	2.762	1.535	2.316
Total general		1207	100	100	100	100

#### Appendix 4

Índice de valor de importancia de familia (IVF%) (Mori et al. 1983), para parcelas permanentes de 1.8 ha y vegetación con DBH  $\geq$  10 cm, en bosques de tierra firme y de várzea en Peña Roja. NI: número de individuos. W%: dominancia relativa medida en biomasa aérea seca. S: número de especies. DI%: diversidad relativa (en %). Se muestra secuencia alfabética de familias (Mabberley 1990). Fabaceae sensu stricto, Moraceae aparte de Cecropiaceae.

Tierra firme, inventario inicial (año 1990).

FAMILIA	NI	NI%	W%	S	DI%	IVF%
ANNONACEAE	17	1.130	0.767	11	4.264	2.054
APOCYNACEAE	45	2.992	6.023	13	5.039	4.685
ARALIACEAE	4	0.266	0.066	1	0.388	0.240
ARECACEAE	31	2.061	0.332	2	0.775	1.056
BIGNONIACEAE	10	0.665	0.120	2	0.775	0.520
BOMBACACEAE	32	2.128	2.735	3	1.163	2.008
BURSERACEAE	89	5.918	2.947	14	5.426	4.763
CAESALPINIACEAE	32	2.128	2.147	4	1.550	1.942
CARYOCARACEAE	14	0.931	1.622	3	1.163	1.238
CECROPIACEAE	2	0.133	0.031	2	0.775	0.313
CHRYSOBALANACEAE	52	3.457	2.754	17	6.589	4.267
CLUSIACEAE	6	0.399	0.212	2	0.775	0.462
COMBRETACEAE	3	0.199	0.074	3	1.163	0.479
CONVOLVULACEAE	1	0.066	0.030	1	0.388	0.161
DIPTEROCARPACEAE	66	4.388	16.992	1	0.388	7.256
ELAEOCARPACEAE	22	1.463	0.997	9	3.488	1.983
ERYTHROXYLACEAE	1	0.066	0.029	1	0.388	0.161
EUPHORBACEAE	56	3.723	1.480	9	3.488	2.897
FABACEAE	106	7.048	15.203	14	5.426	9.226
FLACOURTIACEAE	2	0.133	0.052	2	0.775	0.320
HUGONIACEAE	7	0.465	0.131	2	0.775	0.457
HUMIRIACEAE	19	1.263	1.291	3	1.163	1.239
ICACINACEAE	2	0.133	0.108	1	0.388	0.209
INDET	2	0.133	0.439	2	0.775	0.449
LAURACEAE	111	7.380	4.779	29	11.240	7.800
LECYTHIDACEAE	277	18.418	14.968	8	3.101	12.162
LOGANIACEAE	1	0.066	0.029	1	0.388	0.161
MELASTOMACEAE	18	1.197	0.522	8	3.101	1.607

MELIACEAE	2	0.133	0.040	2	0.775	0.316
MENISPERMACEAE	1	0.066	0.024	1	0.388	0.159
MIMOSACEAE	38	2.527	1.781	11	4.264	2.857
MORACEAE	71	4.721	3.478	8	3.101	3.766
MYRISTICACEAE	91	6.051	2.038	11	4.264	4.118
NYCTAGINACEAE	7	0.465	0.132	5	1.938	0.845
OLACACEAE	3	0.199	0.036	2	0.775	0.337
RHIZOPHORACEAE	31	2.061	1.539	2	0.775	1.459
RUBIACEAE	19	1.263	0.518	8	3.101	1.627
SAPINDACEAE	3	0.199	0.154	2	0.775	0.376
SAPOTACEAE	121	8.045	5.203	27	10.465	7.904
SIMAROUBACEAE	6	0.399	0.537	3	1.163	0.699
TILIACEAE	1	0.066	0.022	1	0.388	0.159
VOCHYSIACEAE	82	5.452	7.622	7	2.713	5.263
Total general	1504	100	100	258	100	100

Várzea, inventario inicial (año 1990).

FAMILIA	NI	NI%	W%	S	DI%	IVF%
ANACARDIACEAE	4	0.331	0.403	2	1.031	0.588
ANNONACEAE	39	3.231	3.259	11	5.670	4.053
APOCYNACEAE	25	2.071	1.547	7	3.608	2.409
ARALIACEAE	2	0.166	0.267	1	0.515	0.316
ARECACEAE	119	9.859	2.057	4	2.062	4.659
BIGNONIACEAE	2	0.166	0.083	1	0.515	0.255
BOMBACACEAE	24	1.988	2.646	2	1.031	1.888
BURSERACEAE	9	0.746	0.319	4	2.062	1.042
CAESALPINIACEAE	213	17.647	13.424	6	3.093	11.388
CECROPIACEAE	6	0.497	0.262	4	2.062	0.940
CHRYSOBALANACEAE	35	2.900	2.297	12	6.186	3.794
CLUSIACEAE	21	1.740	4.234	7	3.608	3.194
COMBRETACEAE	6	0.497	1.698	2	1.031	1.075
DICHAPETALACEAE	2	0.166	0.249	2	1.031	0.482
DILLENIAEAE	2	0.166	0.190	1	0.515	0.290
EBENACEAE	3	0.249	0.095	1	0.515	0.286
ELAEOCARPACEAE	8	0.663	0.431	1	0.515	0.536
EUPHORBIACEAE	70	5.800	8.492	12	6.186	6.826
FABACEAE	48	3.977	5.219	16	8.247	5.815
HIPPOCRATEACEAE	4	0.331	0.091	2	1.031	0.484
INDET	7	0.580	0.394	4	2.062	1.012
LAURACEAE	25	2.071	0.873	8	4.124	2.356
LECYTHIDACEAE	44	3.645	9.617	4	2.062	5.108

MALPIGHIACEAE	1	0.083	0.054	1	0.515	0.217
MELASTOMATACEAE	6	0.497	0.172	2	1.031	0.567
MELIACEAE	18	1.491	1.474	4	2.062	1.676
MENISPERMACEAE	1	0.083	0.041	1	0.515	0.213
MIMOSACEAE	93	7.705	8.713	9	4.639	7.019
MORACEAE	24	1.988	3.317	8	4.124	3.143
MYRISTICACEAE	48	3.977	3.603	7	3.608	3.729
MYRTACEAE	29	2.403	0.987	3	1.546	1.645
NYCTAGINACEAE	16	1.326	2.635	3	1.546	1.836
OCHNACEAE	2	0.166	0.030	1	0.515	0.237
OLACACEAE	6	0.497	0.258	2	1.031	0.595
POLYGONACEAE	2	0.166	0.048	1	0.515	0.243
RHIZOPHORACEAE	6	0.497	0.148	1	0.515	0.387
RUBIACEAE	72	5.965	3.358	11	5.670	4.998
SAPINDACEAE	20	1.657	0.960	1	0.515	1.044
SAPOTACEAE	77	6.379	4.325	13	6.701	5.802
SIMAROUBACEAE	9	0.746	1.297	2	1.031	1.024
STERCULIACEAE	35	2.900	5.759	4	2.062	3.574
TILIACEAE	12	0.994	2.612	2	1.031	1.546
VERBENACEAE	1	0.083	1.058	1	0.515	0.552
VIOLACEAE	5	0.414	0.272	2	1.031	0.572
VOCHYSIACEAE	6	0.497	0.733	1	0.515	0.582
<u>Total general</u>	<u>1207</u>	<u>100</u>	<u>100</u>	<u>194</u>	<u>100</u>	<u>100</u>