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Diversidad florística del río Lagartococha, Reserva de Producción Faunística Cuyabeno, Amazonia ecuatoriana

Floristic diversity of the Lagartococha River basin, Cuyabeno Wildlife Reserve, Ecuadorian Amazon

Nicolas Carvajal[1], Thomas L.P. Couvreur[1,2], Kevin S. Burgess[3,4], Edison Rea[1,5], Andrea Fernández[1], Renata Barrera[1], Francisco Tobar[6,7], Alix Lozinguez[1,2], Álvaro J. Pérez[1]

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RESUMEN

La Reserva de Producción de Fauna Cuyabeno, ubicada en el noreste de Ecuador, alberga una amplia diversidad de ecosistemas, incluidos ríos, lagunas, pastizales y bosques. Este estudio se centra en la cuenca del río Lagartococha, con el objetivo de desarrollar una guía fotográfica de su diversidad vegetal, destinada a las comunidades indígenas, turistas, guardaparques y guías. El trabajo de campo realizado en marzo y julio de 2023 resultó en la recolección de 210 muestras de herbario y la identificación de 184 especies de plantas, incluidas nuevas especies registradas para Ecuador, como *Actinostachys pennula* y *Heteropterys orinocensis*. Además, se recolectaron especies que podrían ser nuevas para la ciencia, como una especie de *Unonopsis* y dos especies distintas de *Annona*. Aunque esta guía destaca la extraordinaria biodiversidad de la región y su potencial para descubrimientos botánicos, no es exhaustiva y subraya la necesidad de realizar estudios florísticos más amplios. Los hallazgos reafirman la importancia ecológica de esta área y enfatizan la relevancia de los esfuerzos de conservación en esta región de alto valor ecológico.

Palabras clave: Cuyabeno, Río Lagartococha, Diversidad, Taxonomía, Florística

ABSTRACT

The Cuyabeno Wildlife Reserve, located in northeastern Ecuador, is home to a diverse range of ecosystems, including rivers, lagoons, grasslands, and forests. This study focuses on the Lagartococha River Basin, aiming to develop a photographic guide to its plant diversity for use by indigenous communities, tourists, park rangers, and guides. Fieldwork conducted in March and July 2023 yielded 210 herbarium samples and identified 184 plant species, including new records for Ecuador, such as *Actinostachys pennula* and *Heteropterys orinocensis*. Additionally, potentially new species to science were collected, including a *Unonopsis* species and two distinct *Annona* species. While this guide highlights the region´s extraordinary biodiversity and potential for botanical discoveries, it is not exhaustive and underscores the need for further comprehensive floristic studies. The findings emphasize the importance of conservation efforts in this ecologically significant area.

Keywords: Cuyabeno, Lagartococha river, Diversity, Taxonomy, Floristics

The Cuyabeno Wildlife Reserve is located in northeastern Ecuador (Mestanza & Mooser, 2018). The reserve encompasses areas within the Putumayo Canton (Sucumbíos Province) and the Aguarico Canton, in the province of Orellana. The reserve covers an area of 590,112 hectares (Ministerio del Ambiente, 2012). Within its territory, there are three main rivers: the Cuyabeno River, located in the northeast, the Lagartococha River, in the east, which marks the border with Peru (Denkinger, 2010), and the Aguarico River, which crosses the reserve from west to east (Vásquez et al., 2023).

The reserve's water source originates in the Amazon Basin (Sioli, 1984), with the Aguarico River receiving water from the Andean runoff and the Cuyabeno and Lagartococha are primarily due to the decomposition of leaf organic material. There is a diversity of ecosystems along the river, including grasslands, Igapó forests, *terra firme* forests and numerous lagoons (Terneus, 2017).

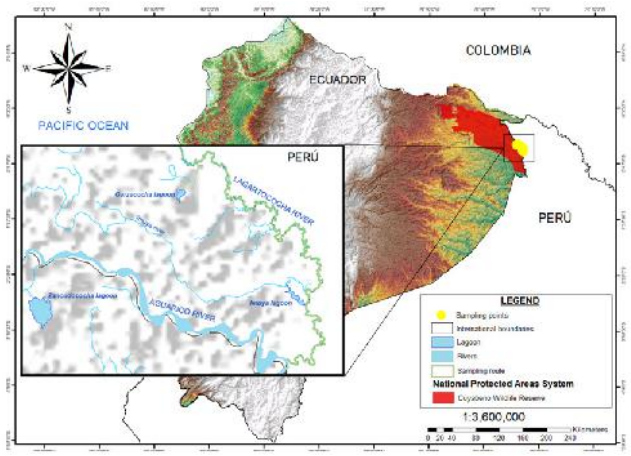

Figure 1. Location of the Cuyabeno Wildlife Reserve (red). The sampling area along the Lagartococha river is highlighted in green on the inset map.

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Figure 2. Panoramic view of the Lagartococha River, showing a variety of vegetation types and lagoon systems. Photograph by Dracaena S.A.

This study focuses on creating a photographic guide of the plants of the Lagartococha River Basin for use by indigenous peoples, tourists, park rangers, and reserve guides, to name a few. The fieldwork was carried out during two separate field expeditions, one during March and then in July 2023. Plant sampling spans an area from the Garza Cocha lagoon to the mouth of the Aguarico River, mostly collecting along the riverside and nearby *terra firme*. Although a high level of diversity has been recorded, this guide aims to facilitate the identification and appreciation of the rich biodiversity present in the region. A total of 210 herbarium samples were collected and 184 species reported; the most diverse family was Annonaceae (31 spp.), followed by Rubiaceae (11 spp.), Fabaceae (11 spp.), Orchidaceae (10 spp.), Lauraceae (6 spp.), Arecaceae (7 spp.), Araceae (6 spp.), and Polypodiaceae (6 spp.).

Figure 4. Navigating by canoe for the collectinon of plant specimens along the banks of the Lagartococha River. Photograph by Thomas Couvreur.

Tourism is a growing activity in the Cuyabeno Wildlife Reserve, attracting thousands of visitors each year interested in exploring its rich biodiversity and experiencing indigenous culture. The number of tourists visiting the reserve varies from about 8,000 to 10,000 annually (Ministerio del Ambiente, 2012), reflecting a sustained interest in this Ecuadorian natural gem.

The floristic composition of the reserve has been the subject of various scientific studies, which have documented a wide variety of plant species per hectare (Valencia et al., 1994), many of which are endemic to the region and of great ecological value. However, the level of knowledge about this floristic diversity requires more detailed studies to more fully understand its rich composition and dispersion (Cerón et al., 2005); research efforts are crucial for the conservation and management of this unique ecosystem.

Figure 3. Igapo vegetation along the Lagartococha River, dominated by *Macrolobium acaciifolium*. Photograph by Thomas Couvreur.

We recorded several species that are new records for Ecuador. For example, *Actinostachys pennula* (Sw.) Hook. (Schizaeaceae) was discovered growing with abundant organic matter in Igapo ground vegetation, a species that was expected to occur in Ecuador, but had previously only been recorded in other Amazonian countries. Similarily, *Heteropterys orinocensis* (Kunth) A. Juss. (Malpighiaceae), a new record liana with long ferrugineus inflorescences was found to be abundant along the Lagartococha riverside. An interesting finding was the location of an emergent tree (35 m tall, 98 cm DBH) with bright yellow flowers identified as *Cochlospermum orinocense* (Kunth) Steud. (Bixaceae), only known previously in Morona Santiago province (2008), and thus our collection is a new record for Sucumbíos province. In addition, our collection record for the filmy fern, *Trichomanes tanaicum* J.W. Sturm (Hymenophyllaceae), is only the second known

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locality in Ecuador and two species of Annonaceae are new records for the country: *Oxandra leucodermis* and *Unonopsis* cf. *stipiata* (Maas et al., 2003; Maas et al., 2007).

We also collected species that are potentially new to science. One is a new species of *Unonopsis*, characterized by densely erect hairy on the young branches and lower side of the leaves, while two other collections are possibly new species of *Annona*: *Annona* sp. 1, a large tree with a light underside of its leaves (this species has been collected also in Yasuní, and is currently being described) and *Annona* sp. 2, characterized by its lianescent habitat, pubescent young branches and single-flowered inflorescences.

The aquatic plant community is diverse along the Lagartococha River; for example, we recorded two species of bladderworts (Lentibulariaceae, *Utricularia foliosa* L. and *U. inflata* Walter), that are specialized insectivorous free-floating herbs. The aquatic grass, *Hymenachne donacifolia* (Raddi) Chase, forms floating mats that flow along the river and lagoons and are eaten by manatees. In addition, we collected three species of water ferns: *Ceratopteris pteridoides* (Hook.) Hieron. (Pteridaceae), that was collected for the first time, in the same locality, more than 40 years ago; the mosquito fern (*Azolla* sp.); and the water moss (*Salvinia auriculata* Aubl.) that share the habitat and forms dense mats.

Although these two expeditions resulted in the collection of a wide variety of plant species, including some new records for Ecuador and potentially new species to science, our findings are skewed towards groups of taxa of research interest to the specialists who accompanied the expedition, leading to inflated numbers of species in these taxa. Consequently, this guide is not exhaustive and represents only one aspect of this rich flora. Nonetheless, we highlight the immense potential of this region for botanical discoveries, species descriptions, and conservation efforts, especially given the diversity of ecosystems it encompasses. More comprehensive floristic inventories should be conducted in this region in the future.

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1 *Tapirira guianensis*
ANACARDIACEAE

2 *Tapirira guianensis*
ANACARDIACEAE

3 *Tapirira guianensis*
ANACARDIACEAE

4 *Anaxagorea brachycarpa*
ANNONACEAE

5 *Anaxagorea brachycarpa*
ANNONACEAE

6 *Anaxagorea brachycarpa*
ANNONACEAE

7 *Annona* cf. *ambotay*
ANNONACEAE

8 *Annona* cf. *ambotay*
ANNONACEAE

9 *Annona* cf. *ambotay*
ANNONACEAE

10 *Annona* cf. *ambotay*
ANNONACEAE

11 *Annona* cf. *ambotay*
ANNONACEAE

12 *Annona edulis*
ANNONACEAE

13 *Annona edulis*
ANNONACEAE

14 *Annona edulis*
ANNONACEAE

15 *Annona hypoglauca*
ANNONACEAE

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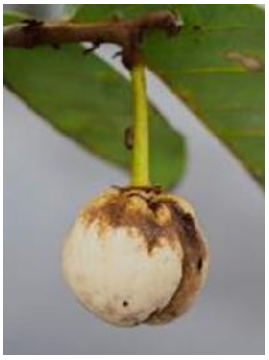

16 *Annona hypoglauca* ANNONACEAE

17 *Annona* sp. 1 ANNONACEAE

18 *Annona* sp. 1 ANNONACEAE

19 *Annona* sp. 1 ANNONACEAE

20 *Annona* sp. 1 ANNONACEAE

21 *Annona* sp. 2 ANNONACEAE

22 *Annona* sp. 2 ANNONACEAE

23 *Annona* sp. 2 ANNONACEAE

24 *Cremastosperma cauliflorum* ANNONACEAE

25 *Cremastosperma cauliflorum* ANNONACEAE

26 *Cremastosperma cauliflorum* ANNONACEAE

27 *Duguetia macrophylla* ANNONACEAE

28 *Duguetia macrophylla* ANNONACEAE

29 *Duguetia odorata* ANNONACEAE

30 *Duguetia odorata* ANNONACEAE

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31 *Duguetia odorata* ANNONACEAE

32 *Duguetia spixiana* ANNONACEAE

33 *Duguetia spixiana* ANNONACEAE

34 *Duguetia spixiana* ANNONACEAE

35 *Duguetia* sp. 1 ANNONACEAE

36 *Duguetia* sp. 1 ANNONACEAE

37 *Guatteria* cf. *modesta* ANNONACEAE

38 *Guatteria* cf. *modesta* ANNONACEAE

39 *Guatteria* cf. *modesta* ANNONACEAE

40 *Guatteria pastazae* ANNONACEAE

41 *Guatteria pastazae* ANNONACEAE

42 *Guatteria pastazae* ANNONACEAE

43 *Guatteria* cf. *punctata* ANNONACEAE

44 *Guatteria* cf. *punctata* ANNONACEAE

45 *Guatteria* cf. *punctata* ANNONACEAE

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46 *Guatteria stipitata* ANNONACEAE

47 *Guatteria stipitata* ANNONACEAE

48 *Guatteria stipitata* ANNONACEAE

49 *Guatteria* sp. 1 ANNONACEAE

50 *Guatteria* sp. 1 ANNONACEAE

51 *Guatteria* sp. 1 ANNONACEAE

52 *Guatteria* sp. 1 ANNONACEAE

53 *Guatteria* sp. 2 ANNONACEAE

54 *Guatteria* sp. 2 ANNONACEAE

55 *Klarobelia cauliflora* ANNONACEAE

56 *Klarobelia cauliflora* ANNONACEAE

57 *Klarobelia cauliflora* ANNONACEAE

58 *Klarobelia cauliflora* ANNONACEAE

59 *Oxandra euneura* ANNONACEAE

60 *Oxandra euneura* ANNONACEAE

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61 *Oxandra euneura* ANNONACEAE

62 *Oxandra leucodermis* ANNONACEAE

63 *Oxandra leucodermis* ANNONACEAE

64 *Oxandra leucodermis* ANNONACEAE

65 *Oxandra leucodermis* ANNONACEAE

66 *Oxandra leucodermis* ANNONACEAE

67 *Pseudoxandra laevigata* ANNONACEAE

68 *Pseudoxandra laevigata* ANNONACEAE

69 *Pseudoxandra laevigata* ANNONACEAE

70 *Trigynaea triplinervis* ANNONACEAE

71 *Trigynaea triplinervis* ANNONACEAE

72 *Trigynaea triplinervis* ANNONACEAE

73 *Trigynaea triplinervis* ANNONACEAE

74 *Unonopsis floribunda* ANNONACEAE

75 *Unonopsis floribunda* ANNONACEAE

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76 *Unonopsis guatterioides*
ANNONACEAE

77 *Unonopsis guatterioides*
ANNONACEAE

78 *Unonopsis guatterioides*
ANNONACEAE

79 *Unonopsis* sp. 1
ANNONACEAE

80 *Unonopsis* sp. 1
ANNONACEAE

81 *Unonopsis* sp. 1
ANNONACEAE

82 *Xylopia crinita*
ANNONACEAE

83 *Xylopia crinita*
ANNONACEAE

84 *Xylopia crinita*
ANNONACEAE

85 *Xylopia excellens*
ANNONACEAE

86 *Xylopia excellens*
ANNONACEAE

87 *Xylopia excellens*
ANNONACEAE

88 *Xylopia excellens*
ANNONACEAE

89 *Xylopia excellens*
ANNONACEAE

90 *Xylopia multiflora*
ANNONACEAE

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91 *Xylopia multiflora*
ANNONACEAE

92 *Xylopia multiflora*
ANNONACEAE

93 *Xylopia nitida*
ANNONACEAE

94 *Xylopia nitida*
ANNONACEAE

95 *Xylopia nitida*
ANNONACEAE

96 *Xylopia parviflora*
ANNONACEAE

97 *Xylopia parviflora*
ANNONACEAE

98 *Xylopia parviflora*
ANNONACEAE

99 *Lacmellea* cf. *floribunda*
APOCYNACEAE

100 *Lacmellea* cf. *floribunda*
APOCYNACEAE

101 *Lacmellea* cf. *floribunda*
APOCYNACEAE

102 *Ilex inundata*
AQUIFOLIACEAE

103 *Ilex inundata*
AQUIFOLIACEAE

104 *Anthurium* sp. 1
ARACEAE

105 *Anthurium* sp. 1
ARACEAE

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106 *Montrichardia linifera*
ARACEAE

107 *Montrichardia linifera*
ARACEAE

108 *Philodendron* aff. *coriaceum*
ARACEAE

109 *Philodendron* aff. *coriaceum*
ARACEAE

110 *Philodendron* aff. *coriaceum*
ARACEAE

111 *Philodendron* aff. *coriaceum*
ARACEAE

112 *Philodendron* sp. 1
ARACEAE

113 *Philodendron* sp. 1
ARACEAE

114 *Pistia striatiotes*
ARACEAE

115 *Pistia striatiotes*
ARACEAE

116 *Stenospermation amomifolium*
ARACEAE

117 *Stenospermation amomifolium*
ARACEAE

118 *Stenospermation amomifolium*
ARACEAE

119 *Astrocaryum jauari*
ARECACEAE

120 *Astrocaryum murumuru*
ARECACEAE

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121 *Astrocaryum murumuru*
ARECACEAE

122 *Desmoncus giganteus*
ARECACEAE

123 *Desmoncus giganteus*
ARECACEAE

124 *Desmoncus giganteus*
ARECACEAE

125 *Geonoma deversa*
ARECACEAE

126 *Geonoma deversa*
ARECACEAE

127 *Geonoma deversa*
ARECACEAE

128 *Geonoma laxiflora*
ARECACEAE

129 *Geonoma laxiflora*
ARECACEAE

130 *Geonoma laxiflora*
ARECACEAE

131 *Geonoma laxiflora*
ARECACEAE

132 *Geonoma macrostachys*
ARECACEAE

133 *Geonoma macrostachys*
ARECACEAE

134 *Geonoma macrostachys*
ARECACEAE

135 *Geonoma stricta*
ARECACEAE

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136 *Geonoma stricta*
ARECACEAE

137 *Geonoma stricta*
ARECACEAE

138 *Hyospathe elegans*
ARECACEAE

139 *Hyospathe elegans*
ARECACEAE

140 *Asplenium stuebelianum*
ASPLENIACEAE

141 *Asplenium stuebelianum*
ASPLENIACEAE

142 *Eclipta prostrata*
ASTERACEAE

143 *Eclipta prostrata*
ASTERACEAE

144 *Eclipta prostrata*
ASTERACEAE

145 *Arrabidaea* sp. 1
BIGNONIACEAE

146 *Arrabidaea* sp. 1
BIGNONIACEAE

147 *Arrabidaea* sp. 1
BIGNONIACEAE

148 *Tanaecium jaroba*
BIGNONIACEAE

149 *Tanaecium jaroba*
BIGNONIACEAE

150 *Tanaecium jaroba*
BIGNONIACEAE

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151 *Tanaecium jaroba*

BIGNONIACEAE

152 *Cochlospermum orinocense*

BIXACEAE

153 *Cochlospermum orinocense*

BIXACEAE

154 *Cochlospermum orinocense*

BIXACEAE

155 *Cochlospermum orinocense*

BIXACEAE

156 *Neoregelia stolonifera*

BROMELIACEAE

157 *Tillandsia adpressiflora*

BROMELIACEAE

158 sp. 1

BROMELIACEAE

159 sp. 1

BROMELIACEAE

160 sp. 1

BROMELIACEAE

161 *Protium unifoliolatum*

BURSERACEAE

162 *Protium unifoliolatum*

BURSERACEAE

163 *Protium unifoliolatum*

BURSERACEAE

164 *Epiphyllum phyllanthus*

CACTACEAE

165 *Epiphyllum phyllanthus*

CACTACEAE

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166 *Pseudorhipsalis amazonica*
CACTACEAE

167 *Pseudorhipsalis amazonica*
CACTACEAE

168 *Rhipsalis baccifera*
CACTACEAE

169 *Rhipsalis baccifera*
CACTACEAE

170 *Marila laxiflora*
CALOPHYLLACEAE

171 *Marila laxiflora*
CALOPHYLLACEAE

172 *Marila laxiflora*
CALOPHYLLACEAE

173 *Caryocar glabrum*
CARYOCARACEAE

174 *Caryocar glabrum*
CARYOCARACEAE

175 *Couepia chrysocalyx*
CHRYSOBALANACEAE

176 *Couepia chrysocalyx*
CHRYSOBALANACEAE

177 *Couepia chrysocalyx*
CHRYSOBALANACEAE

178 *Couepia ulei*
CHRYSOBALANACEAE

179 *Couepia ulei*
CHRYSOBALANACEAE

180 *Couepia ulei*
CHRYSOBALANACEAE

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181 *Couepia ulei*
CHRYSOBALANACEAE

182 *Hirtella elongata*
CHRYSOBALANACEAE

183 *Hirtella elongata*
CHRYSOBALANACEAE

184 *Hirtella elongata*
CHRYSOBALANACEAE

185 *Hirtella elongata*
CHRYSOBALANACEAE

186 *Parinari* sp. 1
CHRYSOBALANACEAE

187 *Parinari* sp. 1
CHRYSOBALANACEAE

188 *Clusia* sp. 1
CLUSIACEAE

189 *Clusia* sp. 1
CLUSIACEAE

190 *Clusia* sp. 2
CLUSIACEAE

191 *Clusia* sp. 2
CLUSIACEAE

192 *Clusia* sp. 2
CLUSIACEAE

193 *Tovomita* sp. 1
CLUSIACEAE

194 *Tovomita* sp. 1
CLUSIACEAE

195 *Combretum laxum*
COMBRETACEAE

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196 *Combretum laxum*
COMBRETACEAE

197 *Combretum llewlynii*
COMBRETACEAE

198 *Combretum llewlynii*
COMBRETACEAE

199 *Combretum llewlynii*
COMBRETACEAE

200 *Aniseia martinicensis*
CONVOLVULACEAE

201 *Aniseia martinicensis*
CONVOLVULACEAE

202 *Aniseia martinicensis*
CONVOLVULACEAE

203 *Dicranostyles ampla*
CONVOLVULACEAE

204 *Dicranostyles ampla*
CONVOLVULACEAE

205 *Dicranostyles* sp. 1
CONVOLVULACEAE

206 *Dicranostyles* sp. 1
CONVOLVULACEAE

207 *Dicranostyles* sp. 1
CONVOLVULACEAE

208 *Tapura amazonica*
DICHAPETALACEAE

209 *Tapura amazonica*
DICHAPETALACEAE

210 *Tapura guianensis*
DICHAPETALACEAE

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211 *Tapura guianensis*
DICHAPETALACEAE

212 *Tapura guianensis*
DICHAPETALACEAE

213 *Davilla* cf. *rugosa*
DILLENIACEAE

214 *Davilla* cf. *rugosa*
DILLENIACEAE

215 *Elaphoglossum* sp. 1
DRYOPTERIDACEAE

216 *Elaphoglossum* sp. 1
DRYOPTERIDACEAE

217 *Elaphoglossum* sp. 1
DRYOPTERIDACEAE

218 *Diospyros artanthifolia*
EBENACEAE

219 *Diospyros artanthifolia*
EBENACEAE

220 *Erythroxylum macrophyllum* var. *ecuadorense*
ERYTHROXYLACEAE

221 *Erythroxylum macrophyllum* var. *ecuadorense*
ERYTHROXYLACEAE

222 *Erythroxylum macrophyllum* var. *ecuadorense*
ERYTHROXYLACEAE

223 *Mabea nitida* var. *albiflora*
EUPHORBIACEAE

224 *Mabea nitida* var. *albiflora*
EUPHORBIACEAE

225 *Mabea nitida* var. *albiflora*
EUPHORBIACEAE

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226 *Mabea nitida* var. *albiflora*

EUPHORBIACEAE

227 *Albizia subdimidiata*

FABACEAE

228 *Albizia subdimidiata*

FABACEAE

229 *Albizia subdimidiata*

FABACEAE

230 *Crudia glaberrima*

FABACEAE

231 *Crudia glaberrima*

FABACEAE

232 *Crudia glaberrima*

FABACEAE

233 *Enterolobium barnebianum*

FABACEAE

234 *Enterolobium barnebianum*

FABACEAE

235 *Enterolobium barnebianum*

FABACEAE

236 *Hydrochorea corymbosa*

FABACEAE

237 *Hydrochorea corymbosa*

FABACEAE

238 *Hydrochorea corymbosa*

FABACEAE

239 *Hydrochorea corymbosa*

FABACEAE

240 *Inga cordatoalata*

FABACEAE

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241 *Inga cordatoalata* FABACEAE

242 *Inga leiocalycina* FABACEAE

243 *Inga leiocalycina* FABACEAE

244 *Inga leiocalycina* FABACEAE

245 *Inga velutina* FABACEAE

246 *Inga velutina* FABACEAE

247 *Macrolobium acaciifolium* FABACEAE

248 *Macrolobium acaciifolium* FABACEAE

249 *Macrolobium multijugum* FABACEAE

250 *Macrolobium multijugum* FABACEAE

251 *Macrolobium multijugum* FABACEAE

252 *Swartzia klugii* FABACEAE

253 *Swartzia klugii* FABACEAE

254 sp. 1 FABACEAE

255 sp. 1 FABACEAE

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256 sp. 1
FABACEAE

257 *Potalia amara*
GENTIANACEAE

258 *Potalia amara*
GENTIANACEAE

259 *Drymonia coccinea*
GESNERIACEAE

260 *Drymonia coccinea*
GESNERIACEAE

261 *Drymonia coccinea*
GESNERIACEAE

262 *Drymonia macrophylla*
GESNERIACEAE

263 *Drymonia macrophylla*
GESNERIACEAE

264 *Gnetum leyboldii*
GNETACEAE

265 *Gnetum leyboldii*
GNETACEAE

266 *Gnetum leyboldii*
GNETACEAE

267 *Hippocratea volubilis*
HIPPOCRATEACEAE

268 *Hippocratea volubilis*
HIPPOCRATEACEAE

269 *Hippocratea volubilis*
HIPPOCRATEACEAE

270 *Vantanea* sp. 1
HUMIRIACEAE

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271 *Vantanea* sp. 1
HUMIRIACEAE

272 *Vantanea* sp. 1
HUMIRIACEAE

273 *Trichomanes tanaicum*
HYMENOPHYLLACEAE

274 *Trichomanes tanaicum*
HYMENOPHYLLACEAE

275 *Endlicheria pyriformis*
LAURACEAE

276 *Endlicheria pyriformis*
LAURACEAE

277 *Endlicheria pyriformis*
LAURACEAE

278 *Endlicheria* sp. 1
LAURACEAE

279 *Endlicheria* sp. 1
LAURACEAE

280 *Endlicheria* sp. 1
LAURACEAE

281 *Endlicheria* sp. 1
LAURACEAE

282 *Endlicheria* sp. 1
LAURACEAE

283 *Endlicheria* sp. 1
LAURACEAE

284 *Endlicheria* sp. 1
LAURACEAE

285 *Nectandra* cf. *oppositifolia*
LAURACEAE

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286 *Nectandra* cf. *oppositifolia*
LAURACEAE

287 *Nectandra* cf. *oppositifolia*
LAURACEAE

288 *Ocotea* cf. *cernua*
LAURACEAE

289 *Ocotea* cf. *cernua*
LAURACEAE

290 *Ocotea* cf. *cernua*
LAURACEAE

291 *Ocotea* sp. 1
LAURACEAE

292 *Ocotea* sp. 1
LAURACEAE

293 *Ocotea* sp. 1
LAURACEAE

294 *Pleurothyrium* sp. 1
LAURACEAE

295 *Pleurothyrium* sp. 1
LAURACEAE

296 *Eschweilera parvifolia*
LECYTHIDACEAE

297 *Eschweilera parvifolia*
LECYTHIDACEAE

298 *Eschweilera parvifolia*
LECYTHIDACEAE

299 *Utricularia foliosa*
LENTIBULARIACEAE

300 *Utricularia foliosa*
LENTIBULARIACEAE

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301 *Utricularia inflata* var. *minor*

LENTIBULARIACEAE

302 *Utricularia inflata* var. *minor*

LENTIBULARIACEAE

303 *Utricularia inflata* var. *minor*

LENTIBULARIACEAE

304 *Utricularia inflata* var. *minor*

LENTIBULARIACEAE

305 *Phlegmariurus linifolius* var. *jenmanii*

LYCOPODIACEAE

306 *Phlegmariurus linifolius* var. *jenmanii*

LYCOPODIACEAE

307 *Heteropterys orinocensis*

MALPIGHIACEAE

308 *Heteropterys orinocensis*

MALPIGHIACEAE

309 *Heteropterys orinocensis*

MALPIGHIACEAE

310 *Hibiscus sororius*

MALVACEAE

311 *Hibiscus sororius*

MALVACEAE

312 *Hibiscus sororius*

MALVACEAE

313 *Matisia bracteolosa*

MALVACEAE

314 *Matisia bracteolosa*

MALVACEAE

315 *Matisia bracteolosa*

MALVACEAE

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316 *Matisia bracteolosa*
MALVACEAE

317 *Henriettea* sp. 1
MELASTOMATACEAE

318 *Henriettea* sp. 1
MELASTOMATACEAE

319 *Henriettea* sp. 1
MELASTOMATACEAE

320 *Miconia stenoptera*
MELASTOMATACEAE

321 *Miconia stenoptera*
MELASTOMATACEAE

322 *Miconia stenoptera*
MELASTOMATACEAE

323 *Miconia stenoptera*
MELASTOMATACEAE

324 *Miconia* sp. 1
MELASTOMATACEAE

325 *Miconia* sp. 1
MELASTOMATACEAE

326 *Miconia* sp. 1
MELASTOMATACEAE

327 *Guarea* cf. *grandifolia*
MELIACEAE

328 *Guarea* cf. *grandifolia*
MELIACEAE

329 *Trichilia pachypoda*
MELIACEAE

330 *Trichilia pachypoda*
MELIACEAE

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331 *Trichilia pachypoda*
MELIACEAE

332 *Abuta grandifolia*
MENISPERMACEAE

333 *Abuta grandifolia*
MENISPERMACEAE

334 *Ficus americana* subsp. *guianensis*
MORACEAE

335 *Ficus americana* subsp. *guianensis*
MORACEAE

336 *Ficus* sp. 1
MORACEAE

337 *Ficus* sp. 1
MORACEAE

338 *Ficus* sp. 1
MORACEAE

339 *Helicostylis tomentosa*
MORACEAE

340 *Helicostylis tomentosa*
MORACEAE

341 *Iryanthera* cf. *hostmannii*
MYRISTICACEAE

342 *Iryanthera* cf. *hostmannii*
MYRISTICACEAE

343 *Iryanthera juruensis*
MYRISTICACEAE

344 *Iryanthera juruensis*
MYRISTICACEAE

345 *Virola calophylla*
MYRISTICACEAE

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346 *Virola calophylla*
MYRISTICACEAE

347 *Virola rufula*
MYRISTICACEAE

348 *Virola rufula*
MYRISTICACEAE

349 *Virola rufula*
MYRISTICACEAE

350 *Virola rufula*
MYRISTICACEAE

351 *Virola* cf. *surinamensis*
MYRISTICACEAE

352 *Virola* cf. *surinamensis*
MYRISTICACEAE

353 *Virola* cf. *surinamensis*
MYRISTICACEAE

354 *Eugenia* cf. *florida*
MYRTACEAE

355 *Eugenia* cf. *florida*
MYRTACEAE

356 *Eugenia* cf. *florida*
MYRTACEAE

357 *Eugenia* cf. *florida*
MYRTACEAE

358 *Eugenia* cf. *florida*
MYRTACEAE

359 *Myrcia splendens*
MYRTACEAE

360 *Myrcia splendens*
MYRTACEAE

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361 *Myrcia splendens*
MYRTACEAE

362 *Myrcia* sp. 1
MYRTACEAE

363 *Myrcia* sp. 1
MYRTACEAE

364 *Plinia* sp. 1
MYRTACEAE

365 *Plinia* sp. 1
MYRTACEAE

366 *Plinia* sp. 1
MYRTACEAE

367 *Ouratea superba*
OCHNACEAE

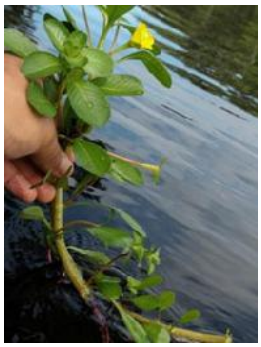
368 *Ouratea superba*
OCHNACEAE

369 *Dulacia candida*
OLACACEAE

370 *Dulacia candida*
OLACACEAE

371 *Dulacia candida*
OLACACEAE

372 *Dulacia candida*
OLACACEAE



373 *Ludwigia peploides*
ONAGRACEAE

374 *Ludwigia peploides*
ONAGRACEAE

375 *Ludwigia peploides*
ONAGRACEAE

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376 *Ludwigia torulosa*
ONAGRACEAE

377 *Ludwigia torulosa*
ONAGRACEAE

378 *Ludwigia torulosa*
ONAGRACEAE

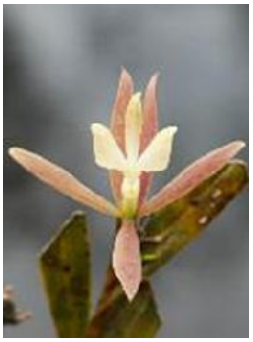
379 *Cattleya violacea*
ORCHIDACEAE

380 *Cattleya violacea*
ORCHIDACEAE

381 *Epidendrum* aff. *calanthum*
ORCHIDACEAE

382 *Epidendrum* aff. *calanthum*
ORCHIDACEAE

383 *Epidendrum* aff. *longicolle*
ORCHIDACEAE



384 *Epidendrum* aff. *longicolle*
ORCHIDACEAE

385 *Epidendrum nocturnum*
ORCHIDACEAE

386 *Epidendrum nocturnum*
ORCHIDACEAE

387 *Eriopsis sceptrum*
ORCHIDACEAE

388 *Eriopsis sceptrum*
ORCHIDACEAE

389 *Maxillaria violaceopunctata*
ORCHIDACEAE

390 *Maxillaria violaceopunctata*
ORCHIDACEAE

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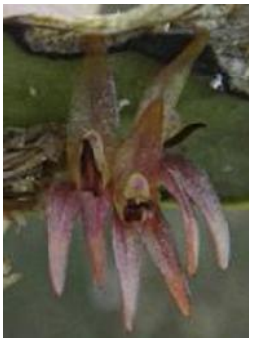
391 *Pleurothallis determannii*
ORCHIDACEAE

392 *Polystachya* sp. 1
ORCHIDACEAE

393 *Polystachya* sp. 1
ORCHIDACEAE

394 *Trichosalpinx orbicularis*
ORCHIDACEAE



395 *Trichosalpinx orbicularis*
ORCHIDACEAE

396 *Vanilla trigonocarpa*
ORCHIDACEAE

397 *Vanilla trigonocarpa*
ORCHIDACEAE

398 *Jablonskia congesta*
PHYLLANTHACEAE

399 *Jablonskia congesta*
PHYLLANTHACEAE

400 *Picramnia sellowii*
PICRAMNIACEAE

401 *Picramnia sellowii*
PICRAMNIACEAE

402 *Hymenachne donacifolia*
POACEAE

403 *Hymenachne donacifolia*
POACEAE

404 *Securidaca divaricata*
POLYGALACEAE

405 *Securidaca divaricata*
POLYGALACEAE

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406 *Securidaca divaricata*

POLYGALACEAE

407 *Securidaca paniculata*

POLYGALACEAE

408 *Securidaca paniculata*

POLYGALACEAE

409 *Microgramma* cf. *lycopodioides*

POLYPODIACEAE

410 *Microgramma* cf. *lycopodioides*

POLYPODIACEAE

411 *Microgramma* cf. *lycopodioides*

POLYPODIACEAE

412 *Microgramma megalophylla*

POLYPODIACEAE

413 *Microgramma megalophylla*

POLYPODIACEAE

414 *Microgramma megalophylla*

POLYPODIACEAE

415 *Microgramma megalophylla*

POLYPODIACEAE

416 *Microgramma percussa*

POLYPODIACEAE

417 *Microgramma percussa*

POLYPODIACEAE

418 *Phlebodium decumanum*

POLYPODIACEAE

419 *Phlebodium decumanum*

POLYPODIACEAE

420 *Phlebodium decumanum*

POLYPODIACEAE

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421 *Phlebodium decumanum*
POLYPODIACEAE

422 *Pleopeltis bombycina*
POLYPODIACEAE

423 *Pleopeltis bombycina*
POLYPODIACEAE

424 *Serpocaulon triseriale*
POLYPODIACEAE

425 *Serpocaulon triseriale*
POLYPODIACEAE

426 *Serpocaulon triseriale*
POLYPODIACEAE

427 *Serpocaulon triseriale*
POLYPODIACEAE

428 *Panopsis rubescens*
PROTEACEAE

429 *Panopsis rubescens*
PROTEACEAE

430 *Panopsis rubescens*
PROTEACEAE

431 *Ceratopteris pteridoides*
PTERIDACEAE

432 *Ceratopteris pteridoides*
PTERIDACEAE

433 *Ceratopteris pteridoides*
PTERIDACEAE

434 *Quiina macrophylla*
QUIINACEAE

435 *Quiina macrophylla*
QUIINACEAE

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436 *Bothriospora corymbosa*
RUBIACEAE

437 *Bothriospora corymbosa*
RUBIACEAE

438 *Bothriospora corymbosa*
RUBIACEAE

439 *Ciliosemina pedunculata*
RUBIACEAE

440 *Ciliosemina pedunculata*
RUBIACEAE

441 *Coussarea amplifolia*
RUBIACEAE

442 *Coussarea amplifolia*
RUBIACEAE

443 *Coussarea amplifolia*
RUBIACEAE

444 *Duroia petiolaris*
RUBIACEAE

445 *Duroia petiolaris*
RUBIACEAE

446 *Duroia petiolaris*
RUBIACEAE

447 *Duroia petiolaris*
RUBIACEAE

448 *Faramea stoneana* subsp. *fasciculata*
RUBIACEAE

449 *Faramea stoneana* subsp. *fasciculata*
RUBIACEAE

450 *Hillia illustris*
RUBIACEAE

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451 *Hillia illustris* RUBIACEAE

452 *Hillia illustris* RUBIACEAE

453 *Hillia illustris* RUBIACEAE

454 *Hillia ulei* RUBIACEAE

455 *Hillia ulei* RUBIACEAE

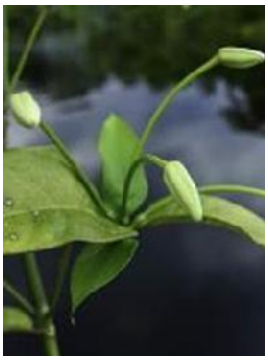
456 *Hillia ulei* RUBIACEAE

457 *Palicourea fastigiata* RUBIACEAE

458 *Palicourea fastigiata* RUBIACEAE

459 *Posoqueria longiflora* RUBIACEAE

460 *Posoqueria longiflora* RUBIACEAE



461 *Posoqueria longiflora* RUBIACEAE

462 *Psychotria anceps* RUBIACEAE

463 *Psychotria anceps* RUBIACEAE

464 *Uncaria guianensis* RUBIACEAE

465 *Uncaria guianensis* RUBIACEAE

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466 *Uncaria guianensis*
RUBIACEAE

467 *Zanthoxylum* sp. 1
RUTACEAE

468 *Zanthoxylum* sp. 1
RUTACEAE

469 *Zanthoxylum* sp. 1
RUTACEAE

470 *Azolla* sp. 1
SALVINIACEAE

471 *Salvinia auriculata*
SALVINIACEAE

472 *Salvinia auriculata*
SALVINIACEAE

473 *Phoradendron obtusissimum*
SANTALACEAE

474 *Phoradendron obtusissimum*
SANTALACEAE

475 *Phoradendron obtusissimum*
SANTALACEAE

476 *Matayba macrolepis*
SAPINDACEAE

477 *Matayba macrolepis*
SAPINDACEAE

478 *Matayba macrolepis*
SAPINDACEAE

479 *Chrysophyllum* cf. *venezuelanense*
SAPOTACEAE

480 *Chrysophyllum* cf. *venezuelanense*
SAPOTACEAE

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481 *Chrysophyllum* cf. *venezuelanense*
SAPOTACEAE

482 *Manilkara inundata*
SAPOTACEAE

483 *Manilkara inundata*
SAPOTACEAE

484 *Actinostachys pennula*
SCHIZAEACEAE

485 *Actinostachys pennula*
SCHIZAEACEAE

486 *Actinostachys pennula*
SCHIZAEACEAE

487 *Simaba orinocensis*
SIMAROUBACEAE

488 *Simaba orinocensis*
SIMAROUBACEAE

489 *Simaba orinocensis*
SIMAROUBACEAE

490 *Siparuna cervicornis*
SIPARUNACEAE

491 *Siparuna cervicornis*
SIPARUNACEAE

492 *Solanum thelopodium*
SOLANACEAE

493 *Solanum thelopodium*
SOLANACEAE

494 *Solanum thelopodium*
SOLANACEAE

495 *Solanum thelopodium*
SOLANACEAE

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496 *Coussapoa trinervia*
URTICACEAE

497 *Coussapoa trinervia*
URTICACEAE

498 *Coussapoa trinervia*
URTICACEAE

499 *Corynostylis arborea*
VIOLACEAE

500 *Corynostylis arborea*
VIOLACEAE

501 *Corynostylis arborea*
VIOLACEAE

502 *Leonia glycycarpa*
VIOLACEAE

503 *Leonia glycycarpa*
VIOLACEAE

504 *Leonia glycycarpa*
VIOLACEAE

505 *Leonia glycycarpa*
VIOLACEAE

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Table 1. Check list for the species recorded along the Lagartococha river.

Photo Nº	Family	Species
1–3	Anacardiaceae	*Tapirira guianensis* Aubl.
4–6	Annonaceae	*Anaxagorea brachycarpa* R.E. Fr.
7–11	Annonaceae	*Annona* cf. *ambotay* Aubl.
12–14	Annonaceae	*Annona edulis* (Triana & Planch.) H. Rainer
15–16	Annonaceae	*Annona hypoglauca* Mart.
17–20	Annonaceae	*Annona* sp. 1
21–23	Annonaceae	*Annona* sp. 2
24–26	Annonaceae	*Cremastosperma cauliflorum* R.E. Fr.
27–28	Annonaceae	*Duguetia macrophylla* R.E. Fr.
29–31	Annonaceae	*Duguetia odorata* (Diels) J.F. Macbr.
32–34	Annonaceae	*Duguetia spixiana* Mart.
35–36	Annonaceae	*Duguetia* sp. 1
37–39	Annonaceae	*Guatteria* cf. *modesta* Diels
40–42	Annonaceae	*Guatteria pastazae* R.E. Fr.
43–45	Annonaceae	*Guatteria* cf. *punctata* (Aubl.) R.A. Howard
46–48	Annonaceae	*Guatteria stipitata* Ruiz & Pav.
49–52	Annonaceae	*Guatteria* sp. 1
53–54	Annonaceae	*Guatteria* sp. 2
55–58	Annonaceae	*Klarobelia cauliflora* Chatrou
59–61	Annonaceae	*Oxandra euneura* Diels
62–66	Annonaceae	*Oxandra leucodermis* (Spruce ex Benth.) Warm.
67–69	Annonaceae	*Pseudoxandra laevigata* (Mart.) Maas
70–73	Annonaceae	*Trigynaea triplinervis* D.M. Johnson & N.A. Murray
72–75	Annonaceae	*Unonopsis floribunda* Diels
76–78	Annonaceae	*Unonopsis guatterioides* (A. DC.) R.E. Fr.
79–81	Annonaceae	*Unonopsis* sp. 1
82–84	Annonaceae	*Xylopia crinita* R.E.Fr.
85–89	Annonaceae	*Xylopia excellens* R.E. Fr.
90–92	Annonaceae	*Xylopia multiflora* R.E. Fr.
93–95	Annonaceae	*Xylopia nitida* Dunal
96–98	Annonaceae	*Xylopia parviflora* (A. Rich.) Benth.
99–101	Apocynaceae	*Lacmellea* cf. *floribunda* (Poepp.) Benth.
102–103	Aquifoliaceae	*Ilex inundata* Poepp. ex Reissek
104–105	Araceae	*Anthurium* sp. 1
106–107	Araceae	*Montrichardia linifera* (Arruda) Schott
108–111	Araceae	*Philodendron* aff. *coriaceum* Croat & D.C. Bay
112–113	Araceae	*Philodendron* sp. 1

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Photo Nº	Family	Species
114–115	Araceae	*Pistia stratiotes* L.
116–118	Araceae	*Stenospermation amomifolium* (Poepp.) Schott
119	Arecaceae	*Astrocaryum jauari* Mart.
120–121	Arecaceae	*Astrocaryum murumuru* Mart.
122–124	Arecaceae	*Desmoncus giganteus* A.J. Hend.
125–127	Arecaceae	*Geonoma deversa* (Poit.) Kunth
128–131	Arecaceae	*Geonoma laxiflora* Mart.
132–134	Arecaceae	*Geonoma macrostachys* Mart.
135–137	Arecaceae	*Geonoma stricta* (Poit.) Kunth
138–139	Arecaceae	*Hyospathe elegans* Mart.
140–141	Aspleniaceae	*Asplenium stuebelianum* Hieron.
142–144	Asteraceae	*Eclipta prostrata* (L.) L.
145–147	Bignoniaceae	*Arrabidaea* sp. 1
148–151	Bignoniaceae	*Tanaecium jaroba* Sw.
152–155	Bixaceae	*Cochlospermum orinocense* (Kunth) Steud.
156	Bromeliaceae	*Neoregelia stolonifera* L.B. Sm.
157	Bromeliaceae	*Tillandsia adpressiflora* Mez
158–160	Bromeliaceae	sp.1
161–163	Burseraceae	*Protium unifoliolatum* Engl.
164–165	Cactaceae	*Epiphyllum phyllanthus* (L.) Haw.
166–167	Cactaceae	*Pseudorhipsalis amazonica* Haw
168–169	Cactaceae	*Rhipsalis baccifera* (Sol.) Stearn
170–172	Calophyllaceae	*Marila laxiflora* Rusby
173–174	Caryocaraceae	*Caryocar glabrum* (Aubl.) Pers.
175–177	Chrysobalanaceae	*Couepia chrysocalyx (*Poepp.) Benth. ex Hook. f.
178–181	Chrysobalanaceae	*Couepia ulei* Pilg.
182–185	Chrysobalanaceae	*Hirtella elongata* Mart. & Zucc.
186–187	Chrysobalanaceae	*Parinari* sp. 1
188–189	Clusiaceae	*Clusia* sp. 1
190–192	Clusiaceae	*Clusia* sp. 2
193–194	Clusiaceae	*Tovomita* sp. 1
195–196	Combretaceae	*Combretum laxum* Jacq.
197–199	Combretaceae	*Combretum llewelynii* J.F. Macbr.
200–202	Convolvulaceae	*Aniseia martinicensis* (Jacq.) Choisy
203–204	Convolvulaceae	*Dicranostyles ampla* Ducke
205–207	Convolvulaceae	*Dicranostyles* sp. 1
208–209	Dichapetalaceae	*Tapura amazonica* Poepp.
210–212	Dichapetalaceae	*Tapura guianensis* Aubl.
213–214	Dilleniaceae	*Davilla* cf. *rugosa* Poir.

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Photo Nº	Family	Species
215–217	Dryopteridaceae	*Elaphoglossum* sp. 1
218–219	Ebenaceae	*Diospyros artanthifolia* Mart. ex Miq.
220–222	Erythroxylaceae	*Erythroxylum macrophyllum* var. *ecuadorense* Plowman
223–226	Euphorbiaceae	*Mabea nitida* var. *albiflora* Müll. Arg.
227–229	Fabaceae	*Albizia subdimidiata* (Splitg.) Barneby & J.W. Grimes
230–232	Fabaceae	*Crudia glaberrima* (Steud.) J.F. Macbr.
233–235	Fabaceae	*Enterolobium barnebianum* Mesquita & M.F. Silva
236–239	Fabaceae	*Hydrochorea corymbosa* (Rich.) Barneby & J.W. Grimes
240–241	Fabaceae	*Inga cordatoalata* Ducke
242–244	Fabaceae	*Inga leiocalycina* Benth.
245–246	Fabaceae	*Inga velutina* Willd.
247–248	Fabaceae	*Macrolobium acaciifolium* (Benth.) Benth.
249–251	Fabaceae	*Macrolobium multijugum* (DC.) Benth.
252–253	Fabaceae	*Swartzia klugii* (R.S. Cowan) Torke
254–256	Fabaceae	sp. 1
257–258	Gentianaceae	*Potalia amara* Aubl.
259–261	Gesneriaceae	*Drymonia coccinea* (Aubl.) Wiehler
262–263	Gesneriaceae	*Drymonia macrophylla* (Oerst.) H.E. Moore
264–266	Gnetaceae	*Gnetum leyboldii* Tul.
267–269	Hippocrateaceae	*Hippocratea volubilis* L.
270–272	Humiriaceae	*Vantanea* sp. 1
273–274	Hymenophyllaceae	*Trichomanes tanaicum* J.W. Sturm
275–277	Lauraceae	*Endlicheria pyriformis* (Nees) Mez
278–284	Lauraceae	*Endlicheria* sp. 1
285–287	Lauraceae	*Nectandra* cf. *oppositifolia* Nees & Mart.
288–290	Lauraceae	*Ocotea* cf. *cernua* (Nees) Mez
291–293	Lauraceae	*Ocotea* sp. 1
294–295	Lauraceae	*Pleurothyrium* sp. 1
296–298	Lecythidaceae	*Eschweilera parvifolia* Mart. ex DC.
299–300	Lentibulariaceae	*Utricularia foliosa* L.
301–304	Lentibulariaceae	*Utricularia inflata* var. *minor* Chapm.
305–306	Lycopodiaceae	*Phlegmariurus linifolius* var. *jenmanii* (Underw. & F.E. Lloyd) B. Øllg.
307–309	Malpighiaceae	*Heteropterys orinocensis* (Kunth) A. Juss.
310–312	Malvaceae	*Hibiscus sororius* L.
313–316	Malvaceae	*Matisia bracteolosa* Ducke
317–319	Melastomataceae	*Henriettea* sp. 1
320–323	Melastomataceae	*Miconia stenoptera* (Gleason) Michelang.
324–326	Melastomataceae	*Miconia* sp. 1
327–328	Meliaceae	*Guarea* cf. *grandifolia* DC.

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Photo Nº	Family	Species
329–331	Meliaceae	*Trichilia pachypoda* (Rusby) C. DC. ex Harms
332–333	Menispermaceae	*Abuta grandifolia* (Mart.) Sandwith
334–335	Moraceae	*Ficus americana* subsp. *guianensis* (Desv. ex Ham.) C.C. Berg
336–338	Moraceae	*Ficus* sp. 1
339–340	Moraceae	*Helicostylis tomentosa* (Poepp. & Endl.) Rusby
341–342	Myristicaceae	*Iryanthera* cf. *hostmannii* (Benth.) Warb.
343–344	Myristicaceae	*Iryanthera juruensis* Warb.
345–346	Myristicaceae	*Virola calophylla* (Spruce) Warb.
347–350	Myristicaceae	*Virola rufula* (A. DC.) Warb.
351–353	Myristicaceae	*Virola surinamensis* (Rol. ex Rottb.) Warb.
354–358	Myrtaceae	*Eugenia* cf. *florida* DC.
359–361	Myrtaceae	*Myrcia splendens* (Sw.) DC.
362–363	Myrtaceae	*Myrcia* sp. 1
364–366	Myrtaceae	*Plinia* sp. 1
367–368	Ochnaceae	*Ouratea superba* Engl.
369–372	Olacaceae	*Dulacia candida* (Poepp.) Kuntze
373–375	Onagraceae	*Ludwigia peploides* (Kunth) P.H. Raven
376–378	Onagraceae	*Ludwigia torulosa* (Arn.) H. Hara
379–380	Orchidaceae	*Cattleya violacea* (Lindl.) Beer
381–382	Orchidaceae	*Epidendrum* aff. *calanthum* Rchb. f. & Warsz.
383–384	Orchidaceae	*Epidendrum* aff. *longicolle* Lindl.
385–386	Orchidaceae	*Epidendrum nocturnum* Jacq.
387–388	Orchidaceae	*Eriopsis sceptrum* Rchb. f. & Warsz.
389–390	Orchidaceae	*Maxillaria violaceopunctata* Rchb. f.
391	Orchidaceae	*Pleurothallis determannii* Luer
392–393	Orchidaceae	*Polystachya* sp. 1
394–395	Orchidaceae	*Trichosalpinx orbicularis* Luer
396–397	Orchidaceae	*Vanilla trigonocarpa* Hoehne
398–399	Phyllanthaceae	*Jablonskia congesta* (Benth. ex Müll. Arg.) G.L. Webster
400–401	Picramniaceae	*Picramnia sellowii* subsp. *spruceana* (Engl.) Pirani
402–403	Poaceae	*Hymenachne donacifolia* (Raddi) Chase
404–406	Polygalaceae	*Securidaca divaricata* Nees & Mart.
407–408	Polygalaceae	*Securidaca paniculata* Rich.
409–411	Polypodiaceae	*Microgramma* cf. *lycopodioides* (L.) Copel.
412–415	Polypodiaceae	*Microgramma megalophylla* (Desv.) de la Sota
416–417	Polypodiaceae	*Microgramma percussa* (Cav.) de la Sota
418–421	Polypodiaceae	*Phlebodium decumanum* (Willd.) J. Sm.
422–423	Polypodiaceae	*Pleopeltis bombycina* (Maxon) A.R. Sm.
424–427	Polypodiaceae	*Serpocaulon triseriale* (Sw.) A.R. Sm.

Diversidad florística del río Lagartococha, Reserva de Producción Faunística Cuyabeno, Amazonia ecuatoriana

Floristic diversity of the Lagartococha River basin, Cuyabeno Wildlife Reserve, Ecuadorian Amazon

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Photo Nº	Family	Species
428–430	Proteaceae	*Panopsis rubescens* (Pohl) Pittier
431–433	Pteridaceae	*Ceratopteris pteridoides* (Hook.) Hieron.
434–435	Quiinaceae	*Quiina macrophylla* Tul.
436–438	Rubiaceae	*Bothriospora corymbosa* (Benth.) Hook. f.
439–440	Rubiaceae	*Ciliosemina pedunculata* (H. Karst.) Antonelli
441–443	Rubiaceae	*Coussarea amplifolia* C.M. Taylor
444–447	Rubiaceae	*Duroia petiolaris* Spruce ex K. Schum.
448–449	Rubiaceae	*Faramea stoneana* subsp. *fasciculata* C.M. Taylor
450–453	Rubiaceae	*Hillia illustris* (Vell.) K. Schum.
454–456	Rubiaceae	*Hillia ulei* K. Schum. ex Ule
457–458	Rubiaceae	*Palicourea fastigiata* Kunth
459–461	Rubiaceae	*Posoqueria longiflora* Aubl.
462–463	Rubiaceae	*Psychotria anceps* Kunth
464–466	Rubiaceae	*Uncaria guianensis* (Aubl.) J.F. Gmel.
467–469	Rutaceae	*Zanthoxylum* sp. 1
470	Salviniaceae	*Azolla* sp. 1
471–472	Salviniaceae	*Salvinia auriculata* Aubl.
473–475	Santalaceae	*Phoradendron obtusissimum* (Miq.) Eichler
476–478	Sapindaceae	*Matayba macrolepis* Radlk.
479–481	Sapotaceae	*Chrysophyllum* cf. *venezuelanense* (Pierre) T.D. Penn.
482–483	Sapotaceae	*Manilkara inundata* (Ducke) Ducke
484–486	Schizaeaceae	*Actinostachys pennula* (Sw.) Hook.
487–489	Simaroubaceae	*Simaba orinocensis* Kunth
490–491	Siparunaceae	*Siparuna cervicornis* Perkins
492–495	Solanaceae	*Solanum thelopodium* Sendtn.
496–498	Urticaceae	*Coussapoa trinervia* Spruce ex Mildbr.
499–501	Violaceae	*Corynostylis arborea* (L.) S.F. Blake
502–505	Violaceae	*Leonia glycycarpa* Ruiz & Pav.

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AUTHORS CONTRIBUTION

All authors contributed equally toward field collections, herbarium work and field guide preparation. Photographs by T.L.P. Couvreur, E. Rea and N. Carvajal.

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