

Pourouma herrerensis C. C. Berg, a new species of Cecropiaceae from Amazonian Peru : contribution to the study of the flora and vegetation of Peruvian Amazonia : XV

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Pourouma herrerensis C. C. Berg, a new species of Cecropiaceae from Amazonian Peru. Contribution to the study of the flora and vegetation of Peruvian Amazonia. XV.

C. C. BERG

ABSTRACT

BERG, C. C. (1989). *Pourouma herrerensis* C. C. Berg, a new species of Cecropiaceae from Amazonian Peru. Contribution to the study of the flora and vegetation of Peruvian Amazonia. XV. *Candollea* 44: 513-516. In English, English and French abstracts.

Pourouma herrerensis, a new species of *Cecropiaceae* from Amazonian Peru is described.

RÉSUMÉ

BERG, C. C. (1989). *Pourouma herrerensis* C. C. Berg, nouvelle espèce de Cecropiaceae est décrite du Pérou amazonien. Contribution à l'étude de la flore et de la faune de l'Amazonie péruvienne. XV. *Candollea* 44: 513-516. En anglais, résumés anglais et français.

Pourouma herrerensis, nouvelle espèce de *Cecropiaceae* de l'Amazonie péruvienne est décrite.

***Pourouma herrerensis* C. C. Berg, spec. nov. (Fig. 1).**

P. molli affinis, a qua differt, inter alia, indumento ramorum foliosorum brevissimo.

Tree, up to 25 m tall. Leafy twigs 3-6 mm thick, minutely puberulous to hispidulous (and \pm scabrous) or also with much longer, yellow hairs, pluricellular hairs dark brown and rather sparse. Lamina entire, oblong to elliptic to ovate, 8-20 \times 3-11.5 cm, (sub)coriaceous, apex short-acuminate, base acute to rounded; upper surface sparsely appressed-puberulous on the midrib or the whole surface covered with long, yellow hairs, lower surface appressed-puberulous on the main veins or also with long yellow hairs, arachnoid hairs in the areoles and on the reticulum; lateral veins 9-14 pairs, basal pair unbranched or branched, the basal part of these veins forming the basal part of the leaf margin (thus not separated from the margin by mesophyll), tertiary venation slightly prominent; petiole 3-10 cm long, minutely puberulous or also with long, yellow hairs; stipules 3.5-8 cm long, caducous, outside densely puberulous and with brown, pluricellular hairs, or also with long, yellow hairs, sometimes only a few appressed ones, inside sparsely short-pubescent. Staminate inflorescences up to 10 cm long and up to 9 cm wide; peduncle 2-6 cm long, peduncle and branches densely puberulous to short-velutinous or also with long, yellow hairs; flowers sessile or pedicellate, most of them in globose heads, numerous and 3-4 mm in diam. or less (5-12) and 5-8 mm in diam.; tepals ca. 1 mm long, connate, forming a \pm urceolate perianth, densely hairy; filaments exceeding the tepals, free. Pistillate inflorescences up to 14 cm long and 9 cm wide; peduncle and branches short-velutinous; flowers 7-25, in 1-4 \pm distinct clusters, pedicels up to 0.7 cm long; perianth yellow-velutinous, except for the apex; stigma subpeltate.

Type: Peru. Loreto: Prov. Requena, Jenaro Herrera, Reserva Forestal, tree 4/122, 2 Oct. 1985 (σ), *Spichiger & al.* 1995 (holotype G; isotype BG). Additional collections: From same locality, Aug.-Sep. (σ), *Bernardi s.n.* (BG); 17 Sep. 1982 (ϕ), *Gentry & al.* 21346 (U); 17 Sep. 1982 (σ),



Fig. 1. — *Pourouma herrerensis* C. C. Berg.
a, leafy twigs with staminate inflorescences (Spichiger & al. 1995); b, pistillate inflorescence (Spichiger & al. 1999); c, leaf (Vásquez & al. 2623).

Spichiger & al. 1996 (BG, G); 9 Oct. 1982 (st.), *Spichiger & al. 1997* (BG, G); 14 Sep. 1982 (♂), *Spichiger & al. 1998* (BG, G); 10 Nov. 1982 (♀), *Spichiger & al. 1999* (BG, G). Prov. Maynas, Puerto Almendras, 11 Nov. 1984 (♀), *Maas & al. 6267* (BG, U); 17 Apr. 1980 (♂), *Vásquez & al. 167* (BG); 21 Oct. 1981 (♀), *Vásquez & al. 2623* (BG). Prov. Maynas, Río Mishana, 24 Apr. 1986 (♀), *Vásquez & al. 7535* (BG).

This species has a strange mixture of features. The staminate inflorescences and flowers resemble those of *P. mollis*, the pistillate inflorescences and flowers those of *P. mollis* subsp. *triloba* and *P. acuminata*. In the indument it differs from both. One of the forms of this species has very short and stiff hairs, resulting in a slightly scabrous surface of the leafy twigs, petioles, stipules, and main veins of the lamina beneath. The other form has this short indument mixed with much longer yellow hairs, as in *P. cucura*, and bears, moreover, long yellow hairs on the upper leaf surface, like some forms of *P. cucura*. Some of the specimens have oblong to elliptic leaves with the basal pair of lateral veins unbranched; such specimens bear some resemblance to *P. acuminata*. Other specimens (with long hairs) have ovate leaves and the basal pairs of lateral veins branched. However, both types of leaves may occur on the same plant, or even on the same branch.

This new species can be accommodated in the key to species and subspecies of *Pourouma* presented by BERG & VAN HEUSDEN (1988: 110-115) as follows:

10. Lamina above yellowish-hirsute to -hirtellous over the whole surface
 - 10' Tepals of staminate flowers connate; (fruiting) perianth of pistillate flowers velutinous **P. herrenensis**
 - 10' Tepals of staminate flowers (almost) free; (fruiting) perianth of pistillate flowers hispidulous (scabrous) **P. cucura**

34. Petiole with a mixture of minute whitish hairs, long yellowish hairs, and (sparse) pluricellular (brown) hairs
 - 34' Tepals of staminate flowers connate; (fruiting) perianth of pistillate flowers velutinous **P. herrenensis**
 - 34' Tepals of staminate flowers (almost) free; (fruiting) perianth of pistillate flowers hispidulous (scabrous) **P. cucura**

58. Basal part of the margin of the lamina formed by the basal lateral veins; tepals of staminate flowers for the greater part connate
 - 58'. Indument of the petioles and leafy twigs consisting of very short and considerably longer hairs **P. herrenensis**
 - 58'. Indument of the petioles and leafy twigs consisting of about equally long hairs or hairs passing from small to long

61. Stipules sparsely to densely hairy inside
 - 61'. Tepals of staminate flowers connate; (fruiting) perianth of pistillate flowers velutinous **P. herrenensis**
 - 61'. Tepals of staminate flowers (almost) free; (fruiting) perianth hispidulous (scabrous) **P. bicolor** subsp. **bicolor**

51. Basal lateral veins unbranched
 66. Stipules 1-3 cm long
 67. Leafy twigs white-puberulous to subglabrous
 68. Lateral veins $2 \times 7-12$; stipules glabrous inside; peduncle of pistillate inflorescence 3-5 cm long **P. saulensis**

68. Lateral veins $2 \times 9-21$; stipules hairy inside; peduncle of pistillate inflorescence up to 32 cm long **P. ovata**
67. Leafy twigs yellow-sericeous to -hirtellous **P. phaeotricha**
66. Stipules 3-13 cm long
69. Lower surface of the lamina initially entirely or largely covered with white or brownish, arachnoid indument; peduncle of pistillate inflorescence up to ca. 50 cm long **P. ferruginea**
69. Lower surface of the lamina with white arachnoid indument in the areoles only (or sometimes extending to the main veins); peduncle of pistillate inflorescence up to ca. 19 cm long
70. Lamina with dense yellow hairs on the main veins beneath
71. Leafy twigs with very short and yellow much longer hairs
P. elliptica
71. Leafy twigs with hairs of about equal length **P. minor**
70. Lamina with sparse and inconspicuous hairs on the main veins beneath
72. Hairs on the leafy twigs short **P. herrerenis**
72. Hairs on the leafy twigs long or absent **P. acuminata**

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