

**TWO NEW SPECIES OF *AGERATINA* (ASTERACEAE:
EUPATORIEAE) FROM MEXICO**

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ABSTRACT

Two new species of *Ageratina* (subgenus *Neogreenella*) are described from Mexico: *A. humochica* B.L. Turner and *A. serboana* B.L. Turner, both from the state of Oaxaca. Their relationships to previously described taxa are discussed and photographs of their holotypes are provided.

KEY WORDS: *Ageratina*, Asteraceae, Mexico, Oaxaca

Routine identification of Mexican Asteraceae has revealed the following novelties:

AGERATINA HUMOCHICA B.L. Turner, **sp. nov.** Fig. 1
Ageratina pendula Panero & Villasenor similis sed differt habitu robuste subfruticoso (vs herba perennis), foliis plerumque alternis (vs. oppositis), et capitulis multo majoribus.

Robust herbs or subshrubs to 1 m (?) high. **Stems** densely glandular-pubescent. **Leaves** markedly alternate; petioles 1.5-2.5 cm long; blades cordate, rugose, glandular-pubescent above and below, their margins crenulate throughout. **Capitulescence** a terminal somewhat pendulous panicle 6-10 cm high and about as wide; ultimate peduncles 1-2 cm long. **Heads** 12-15 mm high; involucre composed of ca 30 linear-lanceolate, somewhat gradate, bracts 6-12 mm long. **Receptacles** plane, glabrous, 3-4 mm across. **Florets** numerous; corollas glabrous, ca. 8 mm long, the tubes 2-3 mm long. **Achenes** 3-4 mm long, sparsely pubescent with ascending short hairs; pappus of ca 30 readily deciduous tawny-white bristles ca 6 mm long.

TYPE: **MEXICO. OAXACA:** Distrito Ixtlan, 43 km N of Ixtlan de Juarez, "Steep slope along crest with *Quercus* and *Symplocus* northwest slope of Cerro Humo Chico" 2870 m, 6 Nov 1983, *Breedlove & Almeda 60017* (holotype: TEX).

In my treatment of *Ageratina* for the Comps of Mexico (Turner 1997) *A. humochica*, because of its alternate upper stem leaves, will key to or near *A. thyrsiflora*, which it resembles not at all. It appears closest to the recently described *A. pendula* as noted in the above diagnosis, which is also an Oaxacan species (from Distrito Juxtlaahuaca). The latter taxon was not accounted for in my Mexican account.

The novelty is named for Cerro Chico Humo, where first collected.

AGERATINA SERBOANA B.L. Turner, *sp. nov.* Fig. 2

Ageratina josepaneroi B.L. Turner similis sed differt capitulescentiis omnino glandulosi-pubescentibus (vs. puberulis) et pedunculis ultimis 3-6 cm longis (vs 0.5-1.0 cm).

Perennial herbs 60-70 cm high, the shoots presumably arising from slender ligneous rhizomes. **Stems** purplish, the lower portions with a vestiture of crinkly spreading hairs to 1 mm long, these underlain by a dense array of much shorter glandular hairs, the latter becoming the sole pubescence along the upper branches. **Leaves** opposite throughout, the internodes mostly 5-10 cm long; petioles 2-3 cm long; blades deltoid to semicordate, marginally crenate, pubescent above and below, more so beneath, the lower surface moderately glandular-punctate. **Captulcescence** a very loose terminal panicle ca 28 cm long, 12 cm across, the ultimate peduncles 3-6 cm long, densely glandular-pubescent. Involucre of ca 10 linear-lanceolate subequal bracts 6-8 mm long. **Receptacle** plane, ca 2 mm across, glabrous. **Florets** 25-30; corollas white, ca 6 mm long, the tube ca 2 mm long, the lobes ca 1 mm long. **Achenes** ca 5 mm long, pubescent with ascending short hairs; pappus of ca 30 slender bristles 5-6 mm long arranged in a single series.

TYPE: **MEXICO. OAXACA:** Mpio. Santago Textitlan, Cerro el Briche, pine oak forests, 1884 m, 21 Jul 2006, *Rosario Trujillo Vasquez 138* (holotype TEX).

Ageratina serboana belongs to the subgenus *Neogreenella* and will key to or near *A. cardiophylla* in my treatment of *Ageratina* for the Comps of Mexico (Turner 1997). Unfortunately, *A. josepaneroi*, with which the present species is compared in the above diagnosis, was described (Turner 1996) after my Comp treatment went to press.

The species name, "serboana," reflects the acronym of Sociedad para el Estudio de los Recursos Bioticos de Oaxaca, which funded collection of the type concerned.

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LITERATURE CITED

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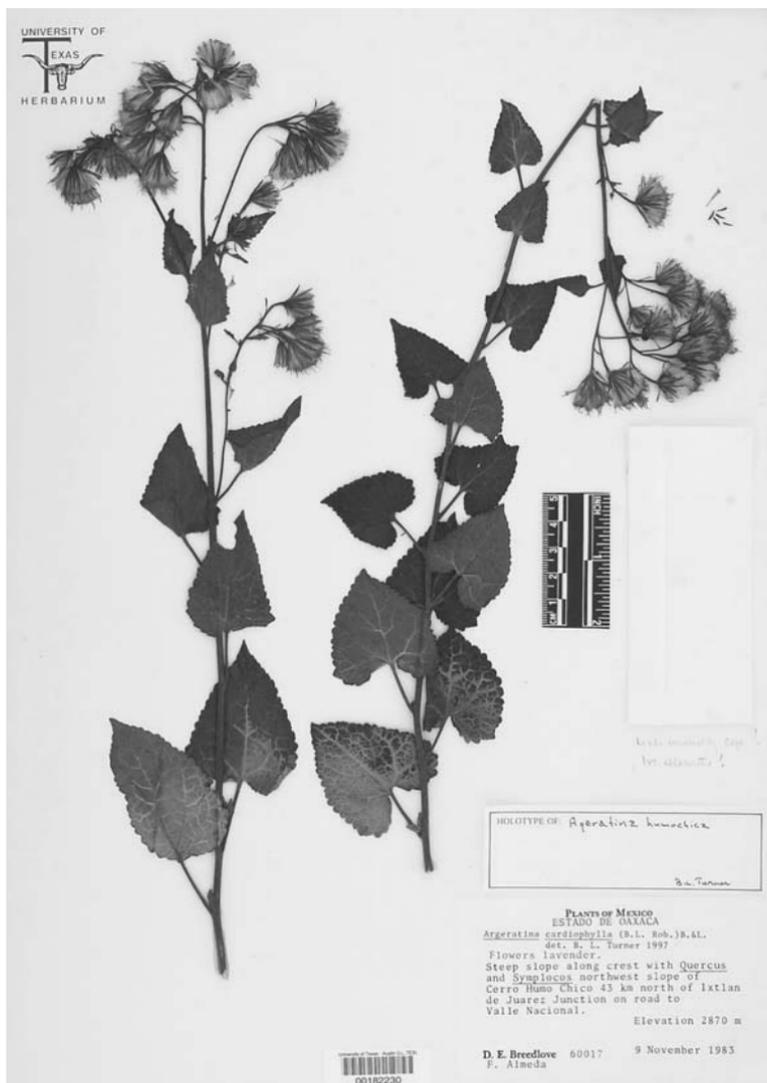


Fig. 1. *Ageratina humochica* (Holotype).

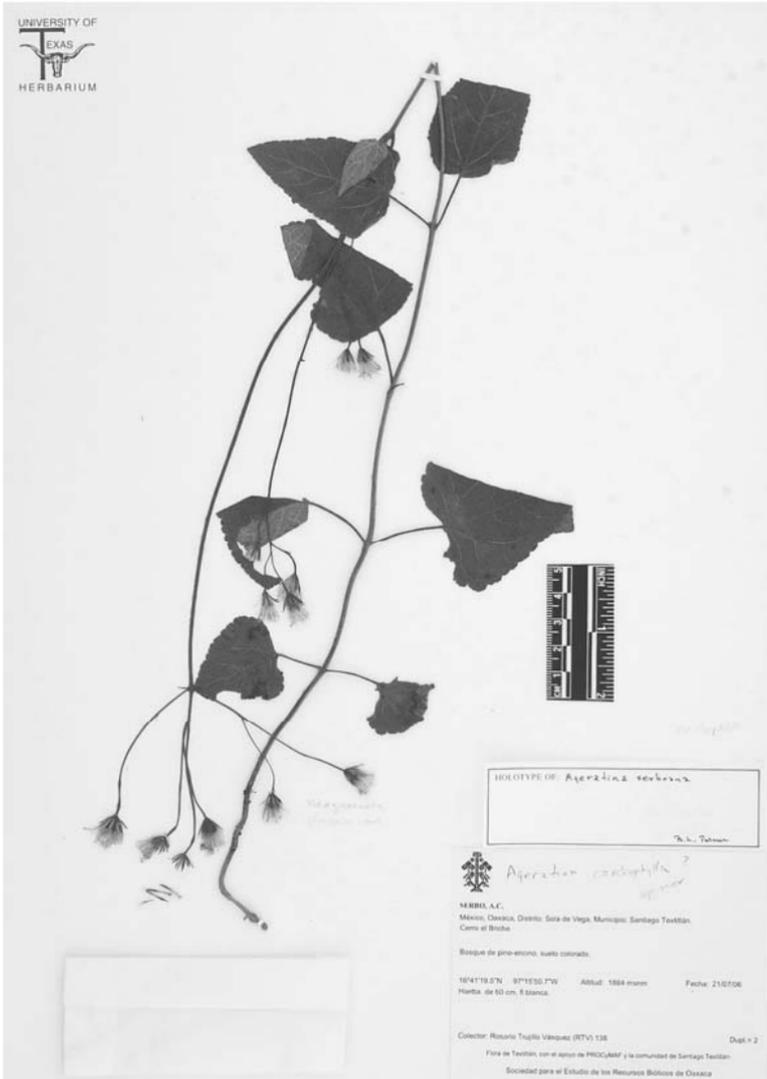


Fig. 2. *Ageratina serboana* (Holotype).