TWO NEW SPECIES OF *BRICKELLIA* (ASTERACEAE: EUPATORIEAE) FROM OAXACA, MEXICO

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ABSTRACT

Two novelties in the genus *Brickellia* from Oaxaca, Mexico, are described: *Brickellia coixtlahuaca*, sp. nov. and *Brickellia huahuapana*, sp. nov. Both taxa belong to the Barroetea group of *Brickellia*, as envisioned by Turner et al. (1991, 1997). Photographs of the types are provided, along with maps showing their distribution. *Phytologia* 92(1): 15-19 (April, 2010).

KEY WORDS: *Brickellia, Barroetea, Asteraceae, Eupatorieae, Mexico, Oaxaca.*

BRICKELLIA COIXTLAHUACA B.L. Turner, sp. nov. Fig. 1, 2

*Brickelliae pavonii* (A. Gray) B.L. Turner similis sed differt foliis valde petiolatis (vs sessilibus), pedunculis ultimis brevioribus (2-6 mm longis vs 10-30 mm), et acheniis adaxaliter 2-nervatis (vs 3-4-nervatis).

Delicate, stiffly erect, annuals 15-30 cm high. Mid-stems sparsely puberulent. Leaves mostly 2.5-4.0 cm long, 2.0-2.5 cm wide; petioles 3-15 mm long; blades broadly ovate to subcordate, palmately 3-nervate from the base, glabrous or nearly so, the margins serrulate. Capitulescence a terminal, somewhat one-sided, corymb, the ultimate peduncles 2-6 mm long. Heads ca 8 mm high, each with ca 10 florets; involucral bracts linear-lanceolate, 3-4 seriate, glabrous. Corollas 4-5 mm long, 5-lobed, glabrous. Achenes flattened, ca 4 m long, the adaxial side with 2 ribs; pappus of ca 20 slender bristles ca 5 mm long.
As noted in the above diagnosis, very similar to B. pavonii, and so identified by its collectors.

The species is named for the Distrito Coixtlahuaca, whence the type (Fig. 3).

**BRICKELLIA HUAHUAPANA** B.L. Turner, sp. nov. Fig. 1, 3

*Brickelliae laxiflorae* (Brandegee) B.L. Turner similis sed differt foliis sessilibus (vs valde petiolatis) et acheniorum paginis adaxialibus valde 4-5-nervatis (vs 1-3 nervatis).

Stiffly erect annual (?) herbs 40-80 cm high. **Mid-stems** sparingly pubescent with upturned white hairs. **Leaves** 2.5-3.5 cm long, 1.5-2.5 cm wide; sessile or nearly so; blades ovate, sparingly pubescent above and below, the margins irregularly serrate. **Capitulescence** a terminal corymbose panicle 20-30 cm high, 15-20 cm across, the ultimate peduncles mostly 2-3 cm long. **Heads** 10-11 mm high, 10-20 mm wide. **Involucres** 2-3 seriate, the outermost bracts glabrous, loose and filiform, as long as the inner bracts. **Florets** ca 20 per head; corollas greenish-white, glabrous, 5-7 mm long, the 5 lobes ca 0.5 mm long. **Achenes** flattened with 9 well-developed ribs, black, sparingly pubescent; pappus of ca 20 slender, white, bristles 5-6 mm long.


**ADDITIONAL SPECIMEN EXAMINED:** Essentially same locality as above: “Guamil. Sobre cerro.” ca 1381 m, 8 Nov 2008, Hernandez 447 (TEX).
Brickellia huahuapana is a very distinctive member of the Barrotea grouping, what with its robust habit and sessile leaves; in habit it much-resembles Brickellia subuligera, but its markedly ribbed achenes rule out such an association.

The species name derives from Distrito Huahuapan, whence the type (Fig. 1).

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LITERATURE CITED

Fig. 1. Distribution of Brickellia coixtlahuaca and B. huahuapana.
Fig. 2. *Brickellia coixtlahuaca* (Holotype).
Fig. 3. *Brickellia huahuapana* (Holotype).